

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

5. Lease Serial No.

UTU-01191

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

UNIT #891008900A

8. Lease Name and Well No.

NBU 1022-4H-3

9. API Well No.

43-047-38918

10. Field and Pool, or Exploratory

NATURAL BUTTES

11. Sec., T., R., M., or Blk, and Survey or Area

SEC. 4, T10S, R22E

12. County or Parish

UINTAH

13. State

UTAH

1a. Type of Work: ☒ DRILL

☐ REENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

☐ Single Zone ☒ Multiple Zone

2. Name of Operator

KERR McGEE OIL & GAS ONSHORE LP

3A. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

SENE 2426'FNL, 1163'FEL

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office\*

38 MILES SOUTH OF OURAY, UTAH

15. Distance from proposed\*

location to nearest  
property or lease line, ft.  
(Also to nearest drig unit line, if any)

1163'

16. No. of Acres in lease

1041.78

17. Spacing Unit dedicated to this well

20.00

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

REFER TO  
TOPO C

19. Proposed Depth

8810'

20. BLM/BIA Bond No. on file

BOND NO: WY-2357

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5057'UNGRADED GL

22. Approximate date work will start\*

23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature

Name (Printed/Typed)

SHEILA UPCHEGO

Date

12/1/2006

Title

REGULATORY ANALYST

Name (Printed/Typed)

BRADLEY G. HILL  
Office ENVIRONMENTAL MANAGER

Date

12-14-06

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

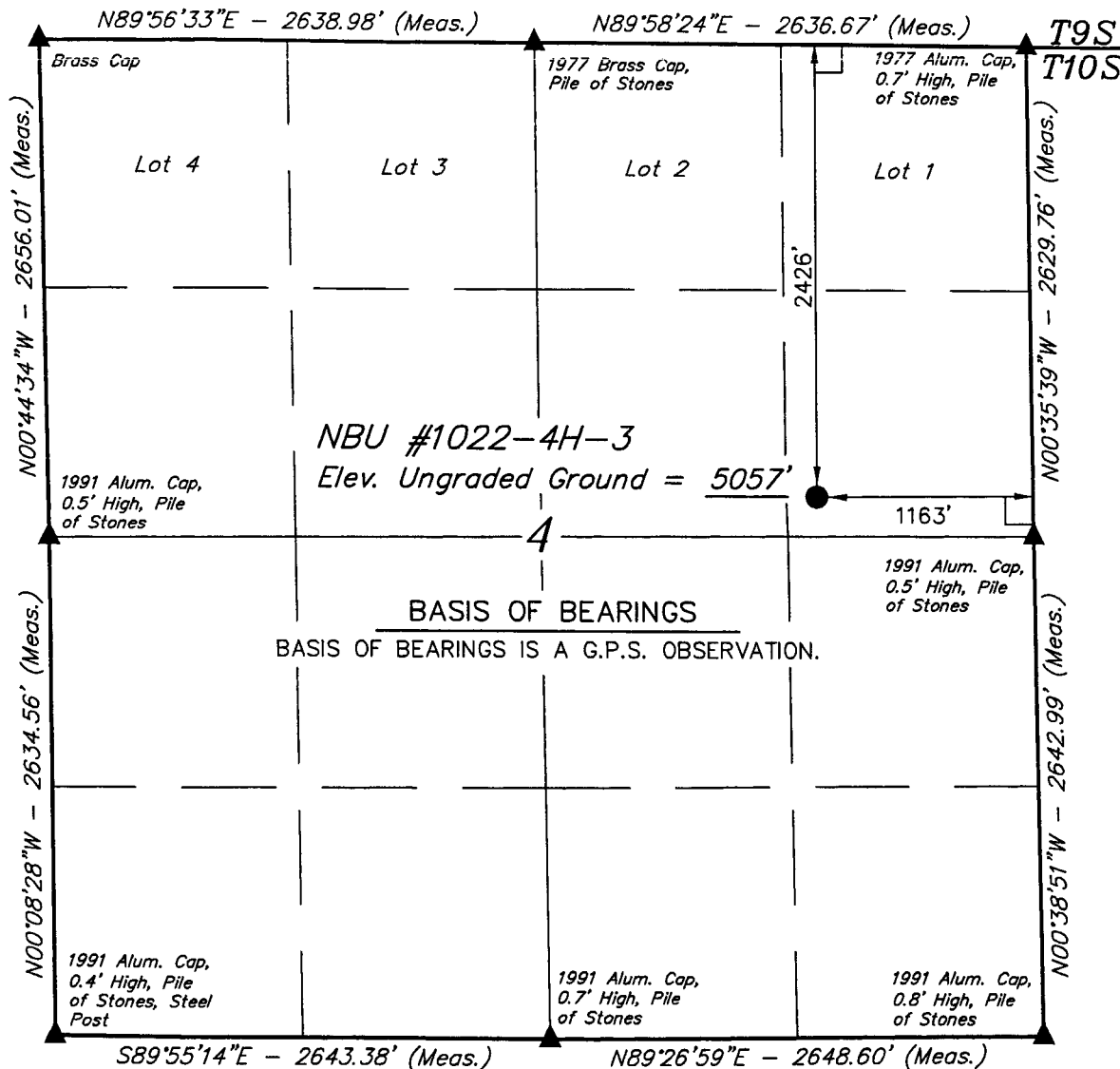
Federal Approval of this  
Action is Necessary

RECEIVED

DEC 11 2006

DIV. OF OIL, GAS & MINING

T10S, R22E, S.L.B.&M.



LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

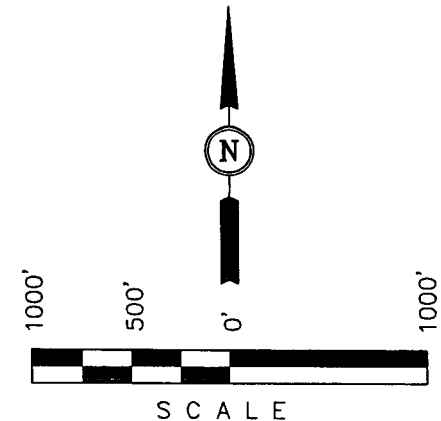
(NAD 83)  
 LATITUDE = 39°58'42.99" (39.978608)  
 LONGITUDE = 109°26'22.68" (109.439633)  
 (NAD 83)  
 LATITUDE = 39°58'43.11" (39.978642)  
 LONGITUDE = 109°26'20.22" (109.438950)

Kerr McGee Oil & Gas Onshore LP

Well location, NBU #1022-4H-3, located as shown in the SE 1/4 NE 1/4 1 of Section 4, T10S, R22E, S.L.B.&M. Uintah County, Utah.

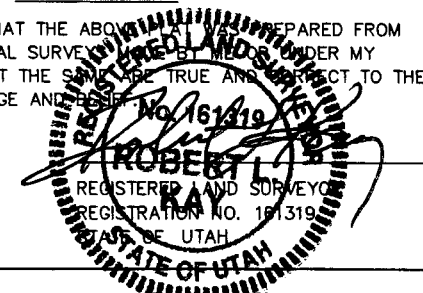
BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



UINTAH ENGINEERING & LAND SURVEYING  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 05-12-06	DATE DRAWN: 05-15-06
PARTY J.R. L.M. S.L.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE Kerr McGee Oil & Gas Onshore LP	

NBU #1022-4H-3  
SENE SEC 4, T10S, R22E  
UINTAH COUNTY, UTAH  
UTU-01191

ONSHORE ORDER NO. 1

***DRILLING PROGRAM***

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1129'
Top of Birds Nest Water	1485'
Mahogany	2082'
Wasatch	4290'
Mesaverde	6713'
MVU2	7685'
MVL1	8240'
TD	8810'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1129'
	Top of Birds Nest Water	1485'
	Mahogany	2082'
	Wasatch	4290'
Gas	Mesaverde	6713'
Gas	MVU2	7685'
Gas	MVL1	8240'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

4. **Proposed Casing & Cementing Program:**

*Please see the Natural Buttes Unit SOP.*

5. **Drilling Fluids Program:**

*Please see the Natural Buttes Unit SOP.*

6. **Evaluation Program:**

*Please see the Natural Buttes Unit SOP.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8810' TD, approximately equals 5462 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3524 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please see Natural Buttes Unit SOP.*

10. **Other Information:**

*Please see Natural Buttes Unit SOP.*



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE December 1, 2006  
WELL NAME NBU 1022-4H-3 TD 8,810' MD/TVD  
FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 5,056' GL KB 5,071'  
SURFACE LOCATION SWSNE SECTION 4, T10S, R22E 2426'FNL, 1163'FEL BHL Straight Hole  
Latitude: 39.978608 Longitude: 109.439633  
OBJECTIVE ZONE(S) Wasatch/Mesaverde  
ADDITIONAL INFO Regulatory Agencies: BLM (SURF & MINERALS), UDOGM, Tri-County Health Dept.

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
Catch water sample, if possible, from 0 to 4,290' Green River @ 1,129' Top of Birds Nest Water @ 1485' Mahogany ( 2,082' Preset f/ GL @ 2,100' MD					
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
Mud logging program TBD Open hole logging program f/ TD - surf csg					
	Wasatch @	4,290'			
	Mverde @	6,713'			
	MVU2 @	7,685'			
	MVL1 @	8,240'			
			7-7/8"	4-1/2", 11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.7 ppg
					Max anticipated Mud required 11.7 ppg
		TD @ 8,810'			



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

## CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 2100	32.30	H-40	STC	0.66***** 7780	1.39 6350	4.28 201000
PRODUCTION	4-1/2"	0 to 8810	11.60	I-80	LTC	2.27	1.18	2.25

1. Max Anticipated Surf. Press. (MASP) (Surface Casing) = (Pore Pressure at next csg point - (0.22 psi/ft - partial evac gradient x TVD of next csg point))  
 2. MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft - partial evac gradient x TD)  
 (Burst Assumptions: TD = 11.7 ppg) .22 psi/ft = gradient for partially evac wellbore  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing \* Buoy. Fact. of water)  
 MASP 3422 psi

\*\*\*\*\* Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

## CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>					
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,790'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	420	60%	11.00	3.38
	TAIL	5,020'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1400	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

## FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

## ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder &

tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper

& lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

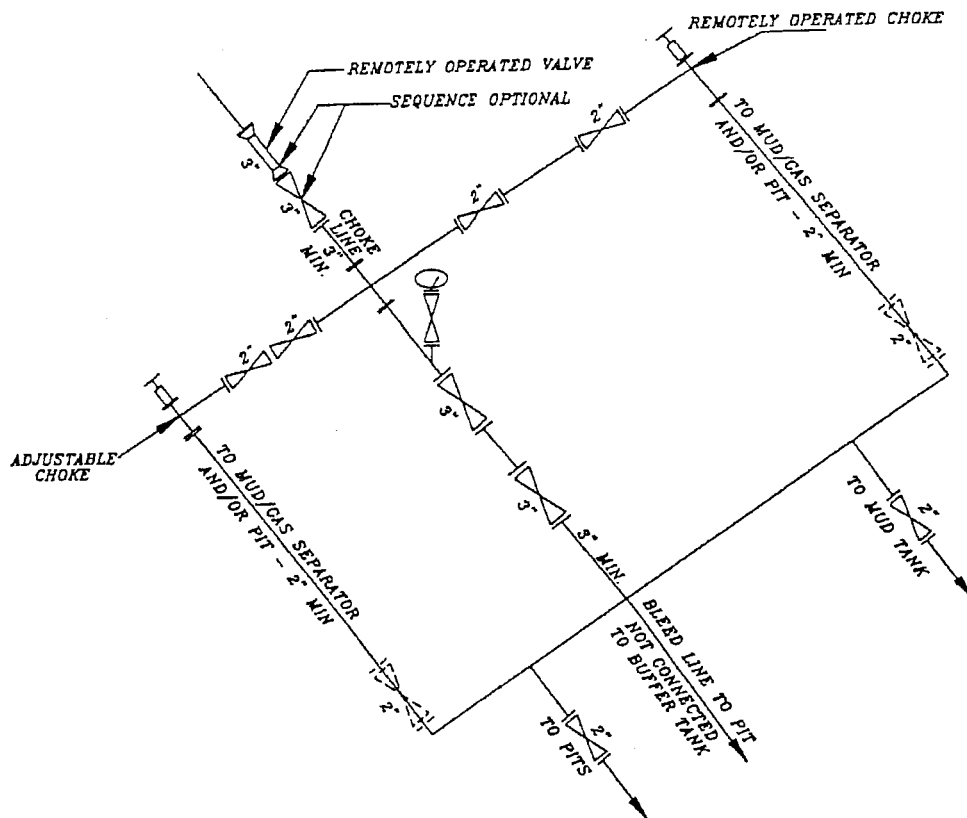
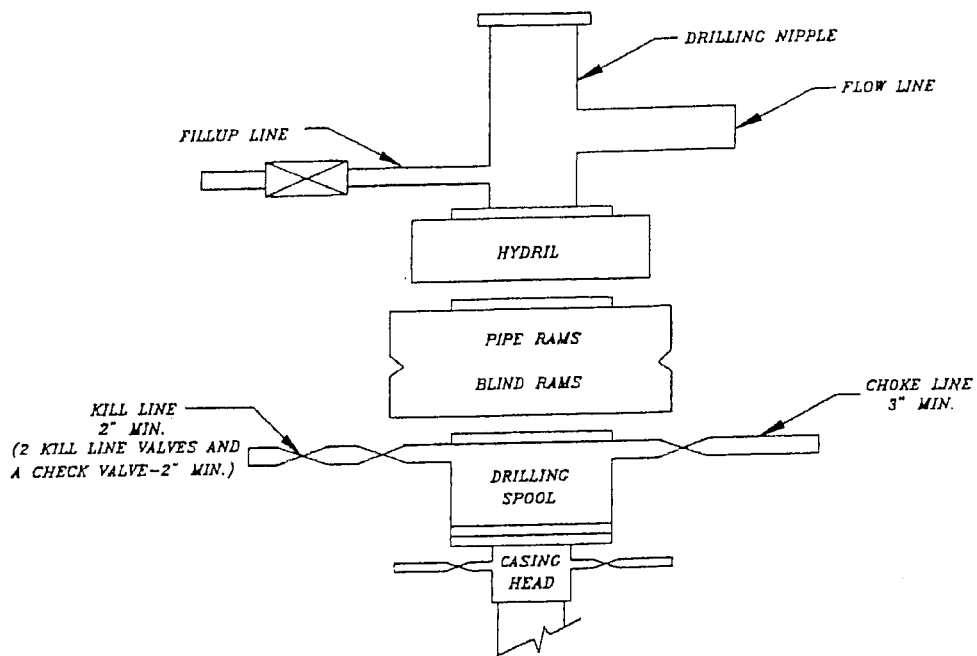
DRILLING ENGINEER: \_\_\_\_\_  
Brad Laney

DATE: \_\_\_\_\_

DRILLING SUPERINTENDENT: \_\_\_\_\_  
Randy Bayne

DATE: \_\_\_\_\_

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



**NBU #1022-4H-3  
SENE SEC 4, T10S, R22E  
UINTAH COUNTY, UTAH  
UTU-01191**

**ONSHORE ORDER NO. 1**

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

**1. Existing Roads:**

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

**2. Planned Access Roads:**

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

Approximately 150' +/- of road is proposed. Please refer to the attached Topo Map B.

Approximately 180' +/- of re-route road is proposed. Please refer to the attached Topo Map B.

**3. Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

**4. Location of Existing & Proposed Facilities:**

*Please see the Natural Buttes Unit SOP.*

Approximately 41' +/- of 4" pipeline is proposed. The pipeline shall be butt-welded. Refer to Topo Map D.

**Variances to Best Management Practices (BMPs) Requested:**

The pipeline shall be installed on surface within the access corridor for the well location. As a Best Management Practice (BMP), the pipeline would be buried within the access road corridor if possible. The construction of pipelines requires the corridor of 30 feet.

This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

**5. Location and Type of Water Supply:**

*Please see the Natural Buttes SOP.*



6. **Source of Construction Materials:**

*Please see the Natural Buttes SOP.*

7. **Methods of Handling Waste Materials:**

*Please see the Natural Buttes SOP.*

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. **Ancillary Facilities:**

*Please see the Natural Buttes SOP.*

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

A 20 mil reserve pit liner with felt will be used. As discussed at the on-site inspection.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

*Please see the Natural Buttes SOP.*

When the pit is backfilled, the topsoil pile shall be spread on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The following seed mixture will be used to reclaim the surface for interim reclamation using appropriate reclamation methods. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for **drilled** seed are:

Galleta Grass	20 lbs.
---------------	---------

Operator shall call the BLM for the seed mixture when final reclamation occurs.

**11. Surface Ownership:**

The well pad and access road are located on lands owned by:

United States of America  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078  
(435)781-4400

**12. Other Information:**

A Class III archaeological survey has been performed and completed on June 1, 2006; The archaeological report No. 06-224 is attached. The paleontological survey have been performed and completed on July 27, 2006 the paleontological survey report No. 06-188; these reports are being submitted along with the Application for Permit to Drill.

**13. Lessee's or Operator's Representative & Certification:**

Sheila Ucphego  
Regulatory Analyst  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7024

Randy Bayne  
Drilling Manager  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7018


Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by BLM Nationwide Bond #WY-2357.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Sheila Upchego

12/1/2006

Date

**Kerr-McGee Oil & Gas Onshore LP**  
**NBU #1022-4H-3**  
**SECTION 4, T10S, R22E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 11.2 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 8.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 150' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 56.2 MILES.

# Kerr-McGee Oil & Gas Onshore LP

NBU #1022-4H-3

LOCATED IN UTAH COUNTY, UTAH  
SECTION 4, T10S, R22E, S.L.B.&M.

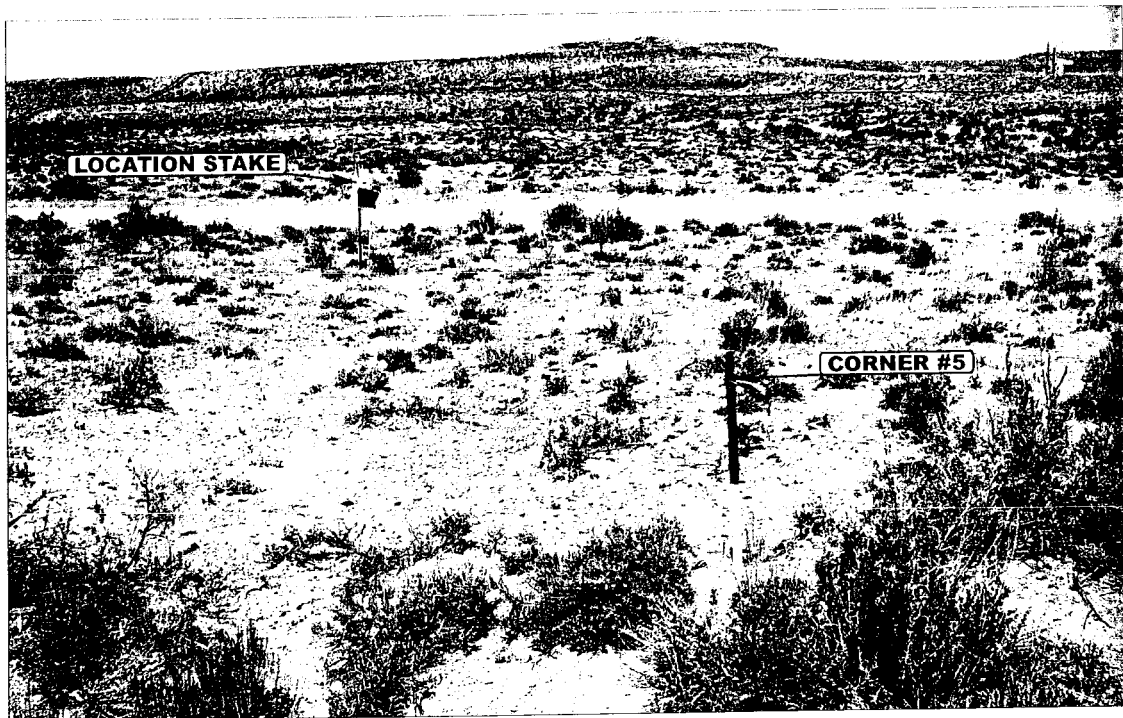


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

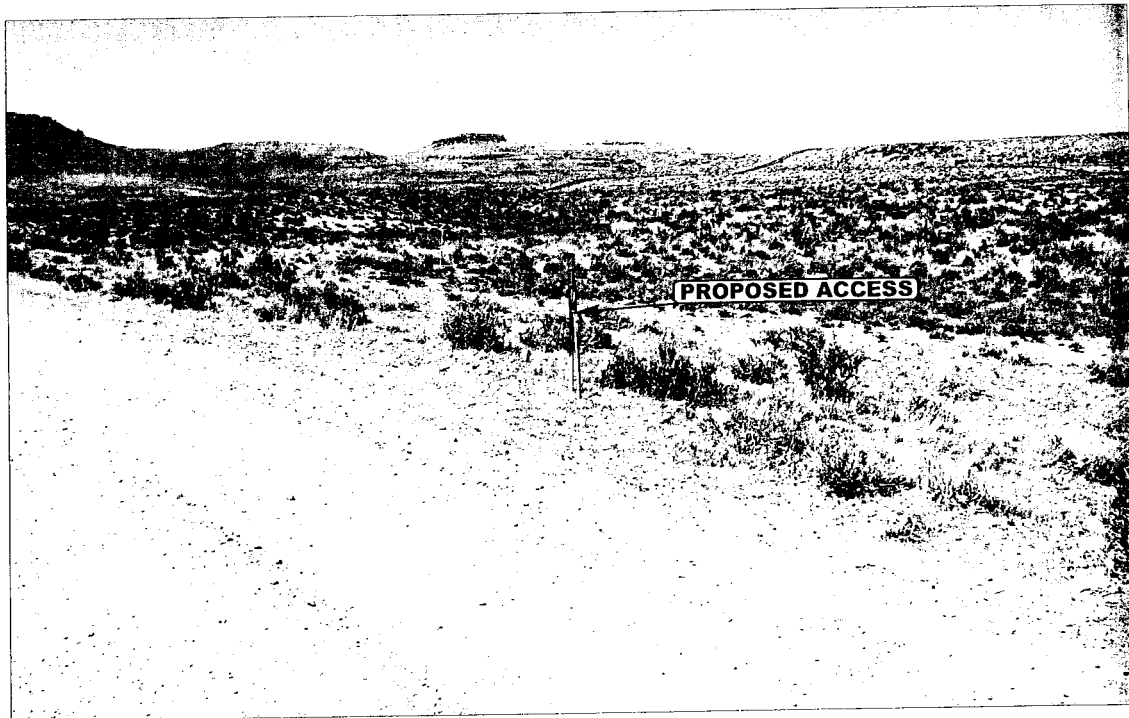


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHERLY



- Since 1964 -

ELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

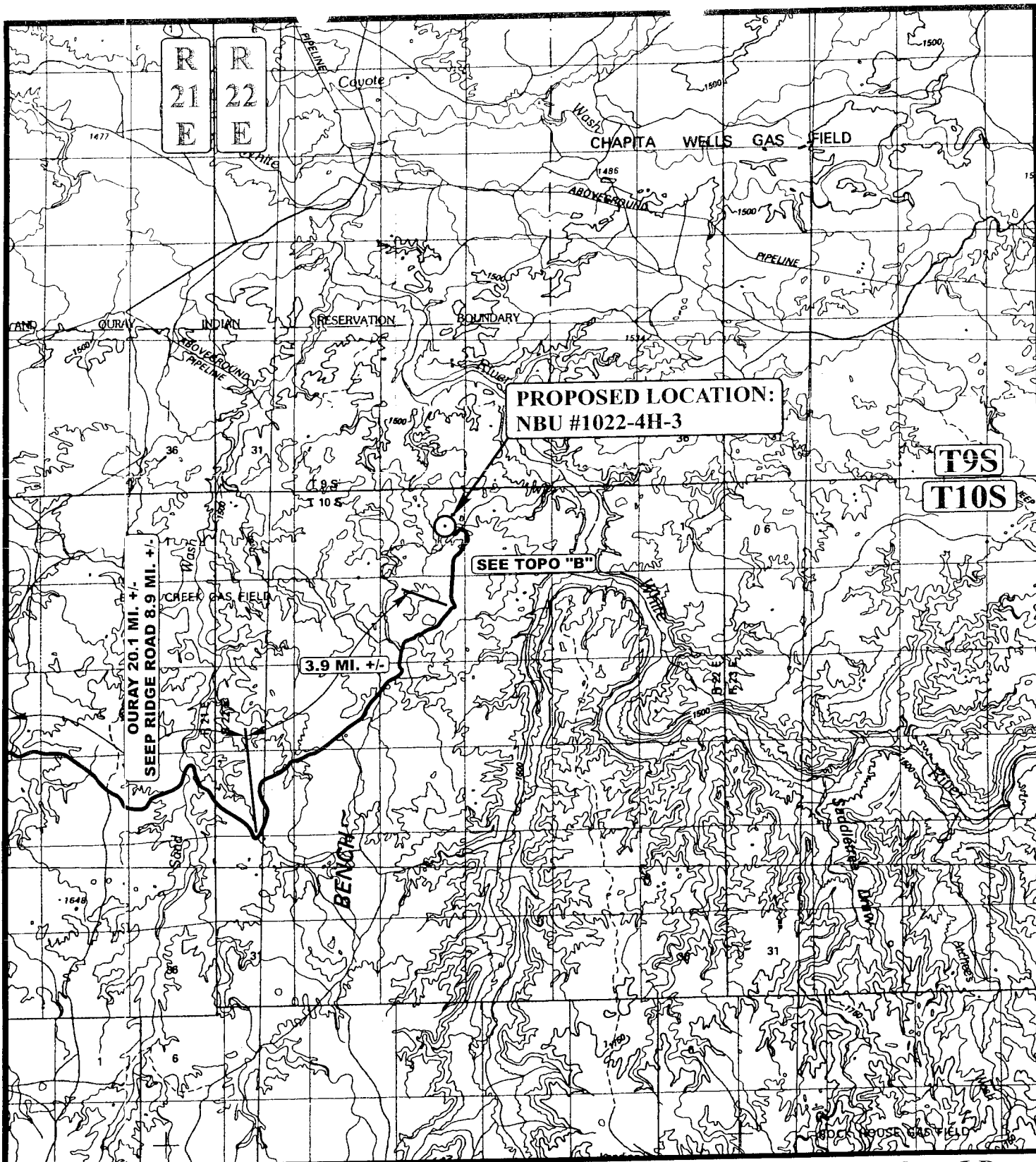
05 17 06  
MONTH DAY YEAR

PHOTO

TAKEN BY: J.R.

DRAWN BY: C.P.

REVISED: 00-00-00



# LEGEND:

○ PROPOSED LOCATION

N

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-4H-3

SECTION 4, T10S, R22E, S.L.B.&M.

2426' FNL 1163' FEL



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



TOPOGRAPHIC  
 MAP

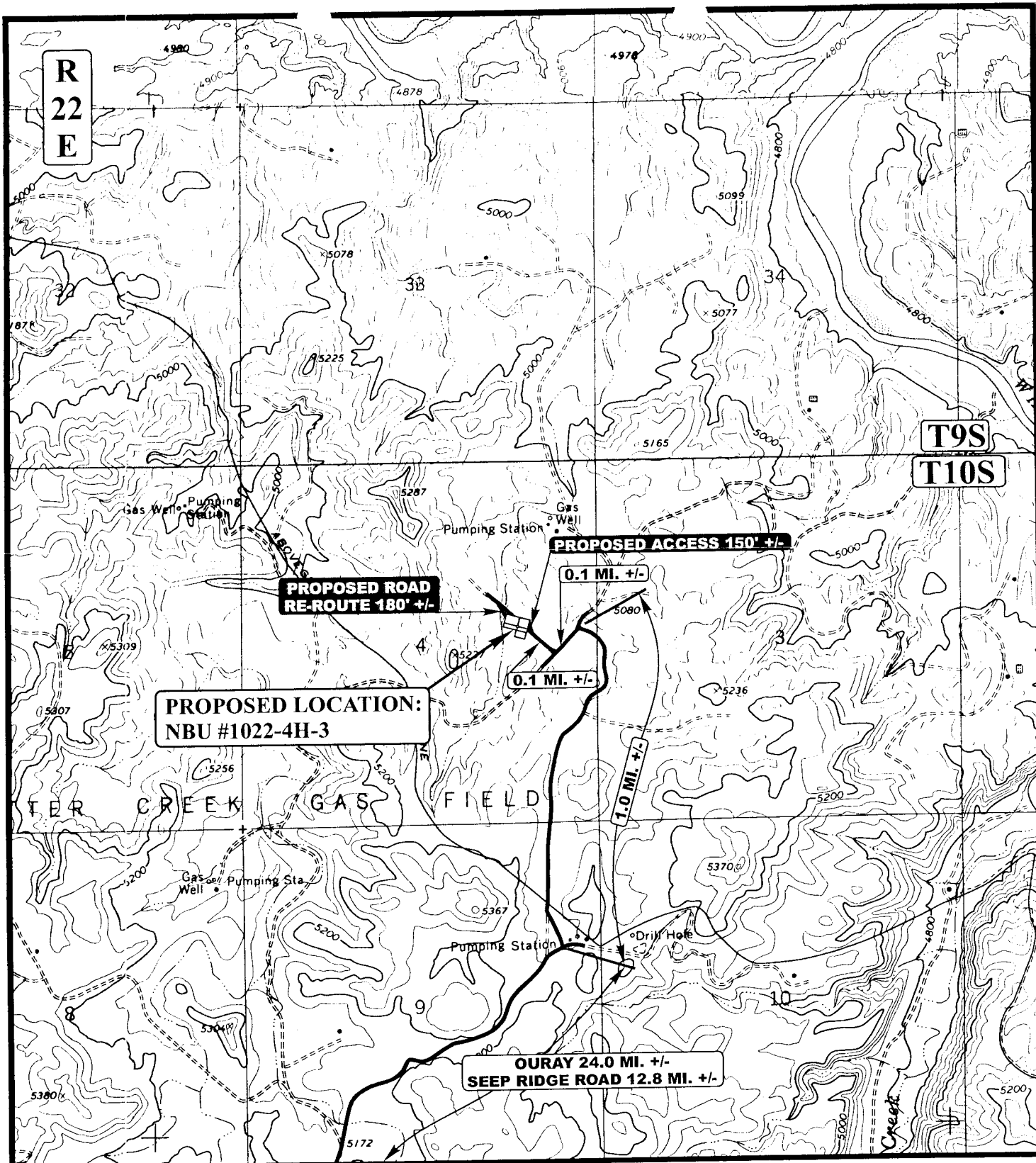
05 17 06  
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: C.P.

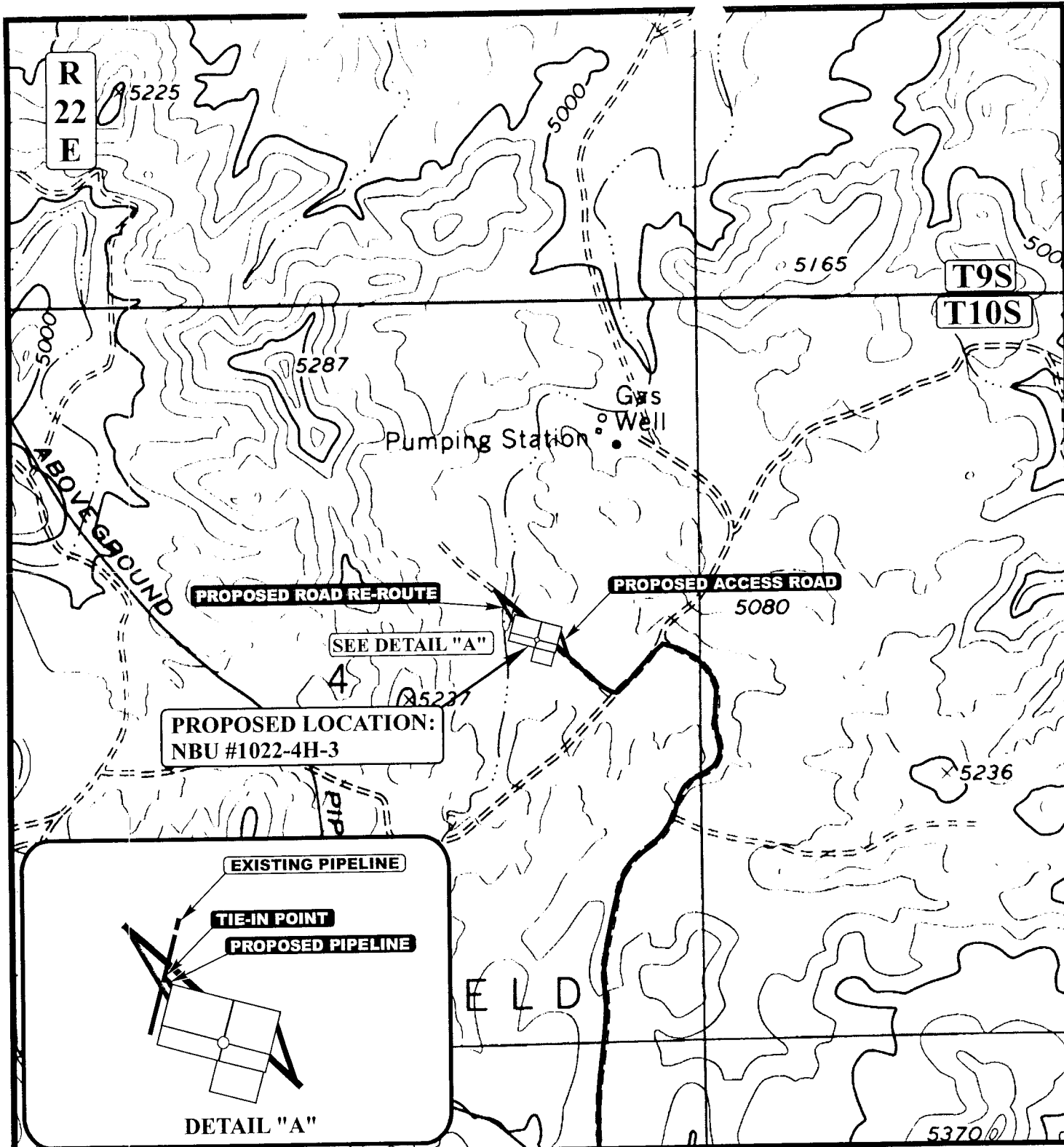
REVISED: 00-00-00

**A**  
 TOPO









APPROXIMATE TOTAL PIPELINE DISTANCE = 41' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- PROPOSED ROAD RE-ROUTE
- PROPOSED PIPELINE
- EXISTING PIPELINE

N

**Kerr-McGee Oil & Gas Onshore LP**

NBU #1022-4H-3

SECTION 4, T10S, R22E, S.L.B.&M.

2426' FNL 1163' FEL



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**05** **17** **06**  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00

**D**  
**TOPO**

# Kerr-McGee Oil & Gas Onshore LP

NBU #1022-4H-3

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 4, T10S, R22E, S.L.B.&M.

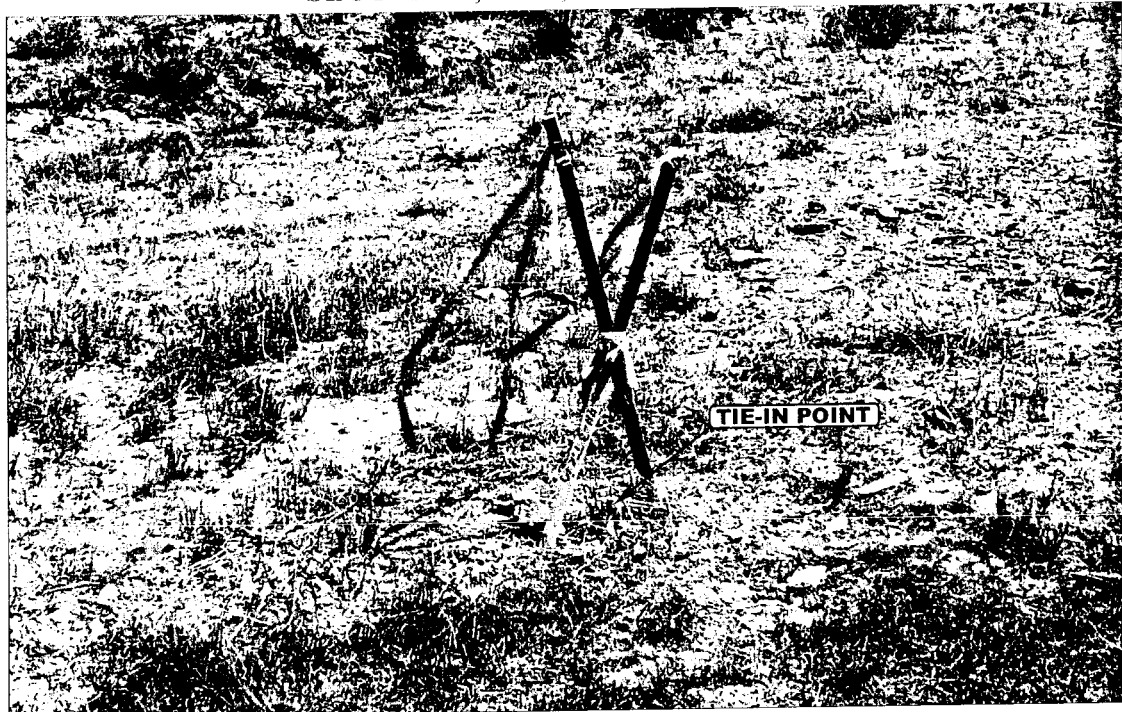


PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: SOUTHEASTERLY

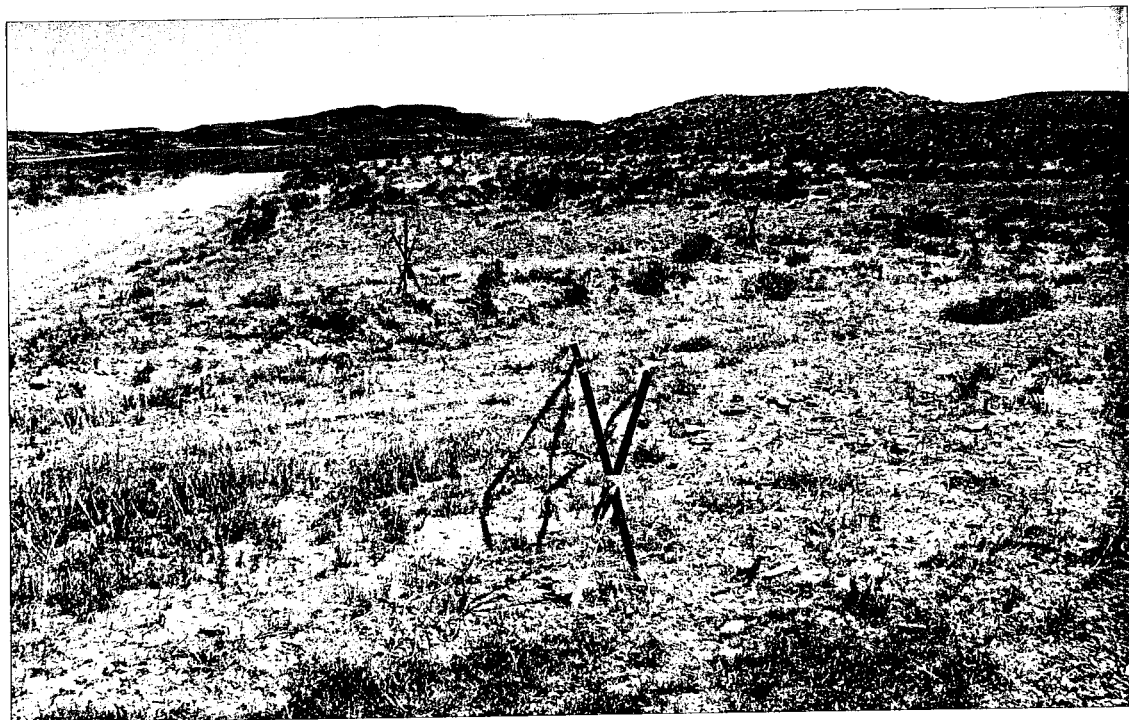


PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

**E&LS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS

05 17 06  
MONTH DAY YEAR

PHOTO

TAKEN BY: J.R.

DRAWN BY: C.P.

REVISED: 00-00-00

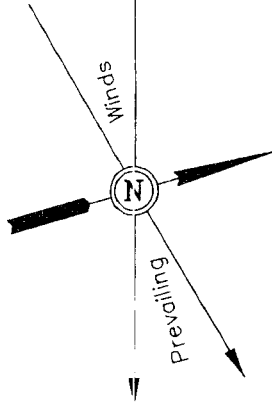
# Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

## LOCATION LAYOUT FOR

NBU #1022-4H-3  
SECTION 4, T10S, R22E, S.L.B.&M.  
2426' FNL 1163' FEL

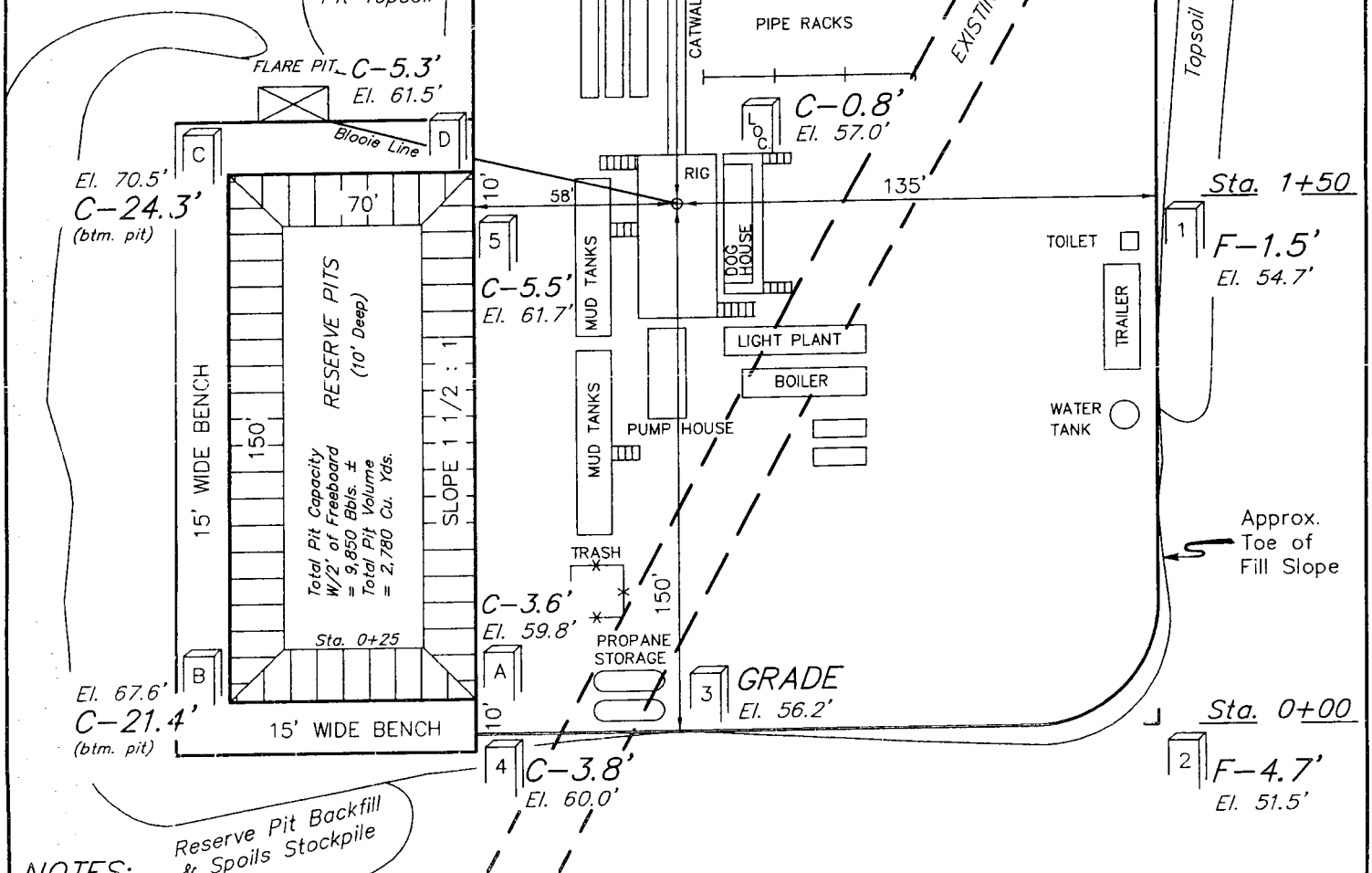
Proposed Access  
Road Re-Route



SCALE: 1" = 50'  
DATE: 10-31-06  
Drawn By: S.L.

### NOTE:

Flare Pit is to be located  
a min. of 100' from the  
Well Head.



### NOTES:

Reserve Pit Backfill  
& Spoils Stockpile

Elev. Ungraded Ground At Loc. Stake = 5057.0'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5056.2'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

## TYPICAL CROSS SECTIONS FOR

NBU #1022-4H-3

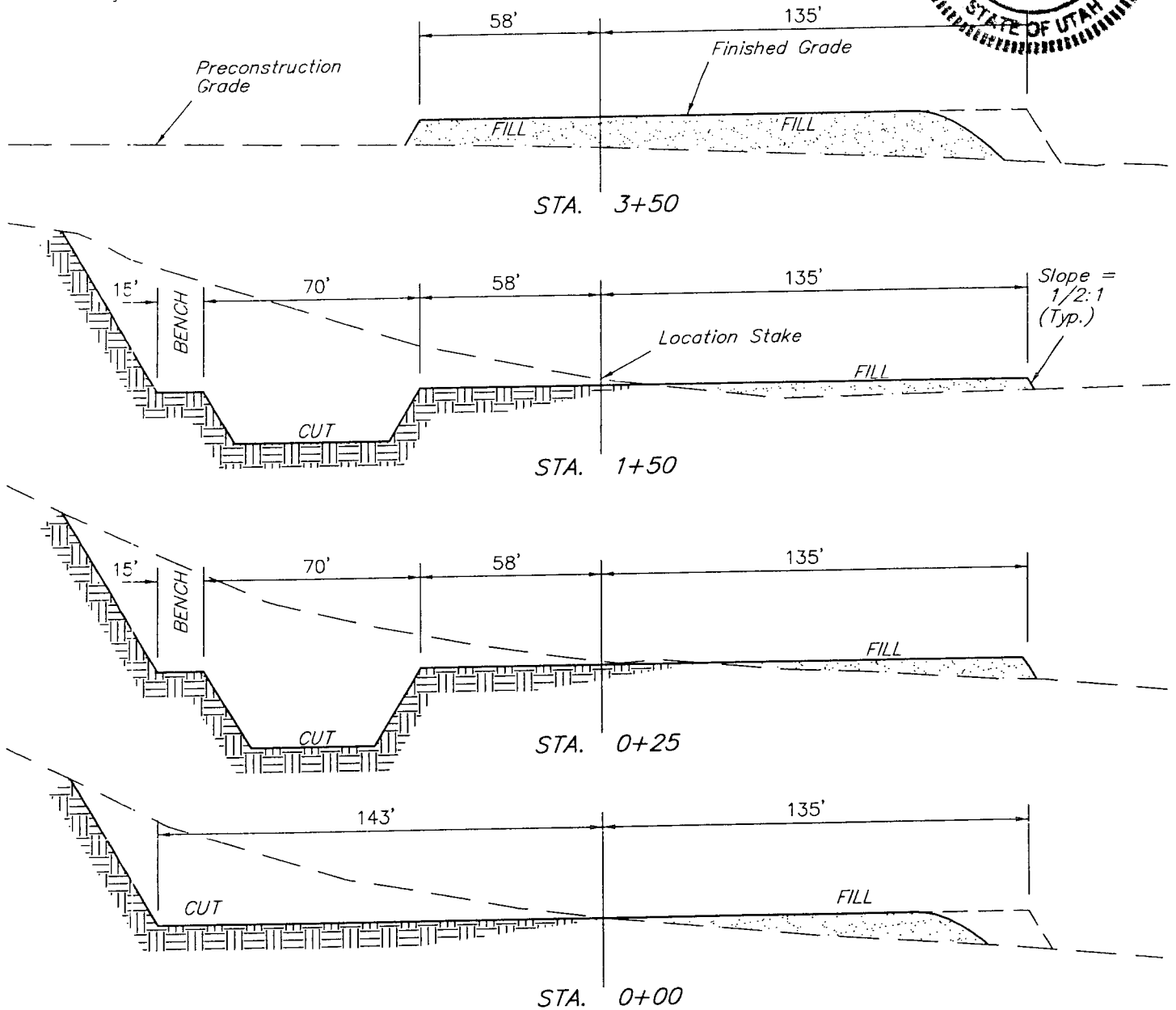
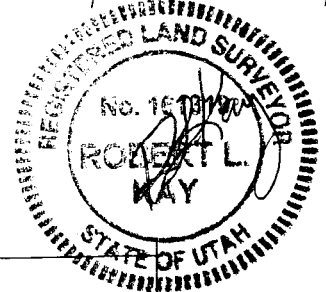
SECTION 4, T10S, R22E, S.L.B.&M.

2426' FNL 1163' FEL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 10-31-06

Drawn By: S.L.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### \* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,840 Cu. Yds.
Remaining Location	= 11,370 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 13,210 CU.YDS.</b>
<b>FILL</b>	<b>= 5,400 CU.YDS.</b>

EXCESS MATERIAL	= 7,810 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,230 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 4,580 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/11/2006

API NO. ASSIGNED: 43-047-38918

WELL NAME: NBU 1022-4H-3

OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )

CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

**PROPOSED LOCATION:**

SENE 04 100S 220E

SURFACE: 2426 FNL 1163 FEL

BOTTOM: 2426 FNL 1163 FEL

COUNTY: UTAH

LATITUDE: 39.97856 LONGITUDE: -109.4389

UTM SURF EASTINGS: 633300 NORTHINGS: 4426334

FIELD NAME: UNDESIGNATED ( 2 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01191

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WY-2357 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-8496 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

**LOCATION AND SITING:**

\_\_\_ R649-2-3.  
Unit: NATURAL BUTTES  
\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
\_\_\_ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 173.14  
Eff Date: 12-2-1999  
Siting: 460' fr 1/4 sec 24 E 1/4 sec 24 S  
\_\_\_ R649-3-11. Directional Drill

COMMENTS:

*See Separate G.W.*

STIPULATIONS:

*1- Pending Approval  
2- OIL SHALE*



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

December 14, 2006

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2006 Plan of Development Natural Buttes Unit Uintah  
County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2006 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Wasatch/MesaVerde)

43-047-38917	NBU 1022-3E-1	Sec 03 T10S R22E 1406 FNL 1202 FWL
43-047-38918	NBU 1022-4H-3	Sec 04 T10S R22E 2426 FNL 1163 FEL
43-047-38919	NBU 1022-4H-2	Sec 04 T10S R22E 1383 FNL 1164 FEL
43-047-38920	NBU 1022-4E-3	Sec 04 T10S R22E 2171 FNL 0137 FWL
43-047-38922	NBU 1022-9A-4	Sec 09 T10S R22E 1253 FNL 0140 FEL
43-047-38923	NBU 1022-15M	Sec 15 T10S R22E 0469 FSL 0849 FWL
43-047-38925	NBU 1022-15N	Sec 15 T10S R22E 0673 FSL 1900 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

December 14, 2006

Kerr-McGee Oil & Gas Onshore LP  
1368 S 1200 E  
Vernal, UT 84078

Re: Natural Buttes Unit 1022-4H-3 Well, 2426' FNL, 1163' FEL, SE NE, Sec. 4,  
T. 10 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38918.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor (via e-mail)  
Bureau of Land Management, Vernal District Office



**Operator:** Kerr-McGee Oil & Gas Onshore LP  
**Well Name & Number** Natural Buttes Unit 1022-4H-3  
**API Number:** 43-047-38918  
**Lease:** UTU-01191

**Location:** SE NE                      **Sec.** 4                      **T.** 10 South                      **R.** 22 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

5. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.

UTU-01191

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

NATURAL BUTTES UNIT  
UNIT # 891008900A

8. Well Name and No.

NBU 1022-4H-3

9. API Well No.

43-047-38918

10. Field and Pool, or Exploratory Area

NATURAL BUTTES

11. County or Parish, State

UINTAH, UTAH

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR-MCGEE OIL & GAS ONSHORE LP

3a. Address

1999 BROADWAY, STE 3700, DENVER, CO 80202

3b. Phone No. (include area code)

435-781-7003

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2426' FNL, 1163' FEL

SENE, SECTION 4, T10S, R22E, SLB&M

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other APD EXTENSION
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	DOGM
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

THE OPERATOR REQUESTS AUTHORIZATION FOR A ONE YEAR EXTENSION FOR THE SUBJECT WELL LOCATION. SO T THE DRILLING OPERATIONS MAY BE COMPLETED. THE ORIGINAL APD WAS APPROVED BY THE DIVISION OF OIL, GAS AND MINING ON DECEMBER 14, 2006.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 12-04-07

By: 

RECEIVED

DEC 03 2007

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

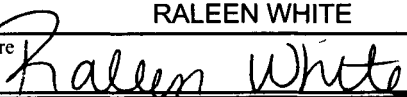
Name (Printed/Typed)

RALEEN WHITE

Title

SR. REGULATORY ANALYST

Signature



Date

November 26, 2007

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office		

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within the jurisdiction of such department or agency.

CONFIDENTIAL  
Date: 12-04-07  
Initials: 

RESET

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304738918  
**Well Name:** NBU 1022-4H-3  
**Location:** SENE, SECTION 4, T10S, R22E, SLB&M  
**Company Permit Issued to:** KERR-MCGEE OIL & GAS ONSHORE LP  
**Date Original Permit Issued:** 12/14/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Raleen White  
Signature

11/26/07  
Date

Title: Sr. Regulatory Analyst

Representing: Kerr-McGee Oil & Gas Onshore LP

**RECEIVED**

**DEC 03 2007**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

DEC 04 2006

BLM

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

5. Lease Serial No.

UTU-01191

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

UNIT #891008900A

8. Lease Name and Well No.

NBU 1022-4H-3

9. API Well No.

43 047 38913

10. Field and Pool, or Exploratory

NATURAL BUTTES

11. Sec., T., R., M., or Blk, and Survey or Area

SEC. 4, T10S, R22E

12. County or Parish

UINTAH

13. State

UTAH

1a. Type of Work: ☒ DRILL ☐ REENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator

KERR McGEE OIL & GAS ONSHORE LP

3A. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface SENE 2426'FNL, 1163'FEL

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office\*

38 MILES SOUTH OF OURAY, UTAH

15. Distance from proposed\*

location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any) 1163'

16. No. of Acres in lease

1041.78

17. Spacing Unit dedicated to this well

20.00

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

REFER TO  
TOPO C

19. Proposed Depth

8810'

20. BLM/BIA Bond No. on file

BOND NO: WY-2357

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5057'UNGRADED GL

22. Approximate date work will start\*

23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

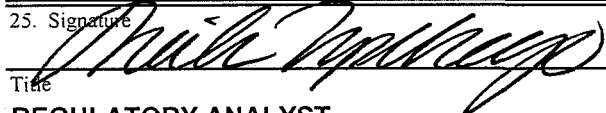
3. A Surface Use Plan (if the location is on National Forest System Lands, the  
SUPO shall be filed with the appropriate Forest Service Office.

4. Bond to cover the operations unless covered by an existing bond on file (see  
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the  
authorized office.

25. Signature



Name (Printed/Typed)

SHEILA UPCHEGO

Date

12/1/2006

Title

REGULATORY ANALYST

Approved by (Signature)

  
Assistant Field Manager  
Lands & Mineral Resources

Name (Printed/Typed)

Steve Kewala

Office

VERNAL FIELD OFFICE

AUG 21 2008

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

NOTICE OF APPROVAL

UDOGM

RECEIVED

AUG 25 2008

DIV. OF OIL, GAS & MINING

06 Bm1775A



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** Kerr-McGee Oil & Gas Onshore, LP      **Location:** SENE, Sec. 4, T10S, R22E  
**Well No:** NBU 1022-4H-3      **Lease No:** UTU-01191  
**API No:** 43-047-38918      **Agreement:** Natural Buttes Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

**Fax: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

***Surface COAs:***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

***Site Specific COAs:***

- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be re-contoured and the topsoil re-spread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be re-contoured to natural contours, topsoil re-spread where appropriate, and the entire location seeded with the recommended seed mix. Seeding shall take place by broadcasting the seed and walking it into the soil with a dozer immediately after the dirt work is completed.
- Seeding shall occur in the fall (August 1<sup>st</sup> until snow or ground is frozen).

***DOWNHOLE CONDITIONS OF APPROVAL ( COAs)***

**SITE SPECIFIC DOWNHOLE COAs:**

- A surface casing shoe integrity test shall be performed.
- Production casing cement top shall be at a minimum of 200' above the surface casing shoe.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



**OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$  Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217-3779		7. UNIT OR CA AGREEMENT NAME: 891008900A
PHONE NUMBER: (720) 929-6226		8. WELL NAME and NUMBER: NBU 1022-4H-3
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2426' FNL & 1163' FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 4 10S 22E		9. API NUMBER: 4304738918
COUNTY: Uintah STATE: UTAH		10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: APD Extension
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP, respectfully requests a one year extension for this APD in order to complete drilling operations. The Utah Division of Oil, Gas, and Mining initially approved this APD on 12/14/2006.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 12-11-08  
By: [Signature]

NAME (PLEASE PRINT) Kevin McIntyre	TITLE Regulatory Analyst
SIGNATURE [Signature]	DATE 12/10/2008

(This space for State use only)

COPY SENT TO OPERATOR

Date: 12.16.2008

Initials: KS

(See Instructions on Reverse Side)

(5/2000)

RECEIVED  
DEC 11 2008  
DIV. OF OIL, GAS & MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304738918  
**Well Name:** NBU 1022-4H-3  
**Location:** SENE 2426' FNL & 1163' FEL, Sec. 4, T10S R22E  
**Company Permit Issued to:** Kerr-McGee Oil & Gas Onshore, LP  
**Date Original Permit Issued:** 12/14/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
\_\_\_\_\_  
Signature

12/10/2008  
\_\_\_\_\_  
Date

Title: Regulatory Analyst

Representing: Kerr-McGee Oil & Gas Onshore, LP

**RECEIVED**  
**DEC 11 2008**  
DIV. OF OIL, GAS & MINING

## DIVISION OF OIL, GAS AND MINING

### ***SPUDDING INFORMATION***

Name of Company: Kerr-McGee Oil & Gas Onshore, LP

Well Name: NBU 1022-4H-3

API No: 43-047-38918 Lease Type: Federal

Section 04 Township 10S Range 22E County Uintah

Drilling Contractor \_\_\_\_\_ Rig # \_\_\_\_\_

### **SPUDDED:**

Date 03/20/09

Time 9:30 AM

How Dry

***Drilling will Commence:*** \_\_\_\_\_

Reported by Bruce Taylor

Telephone # 435-828-1680

Date 03/23/2009

Signed RM

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
Address: 1368 SOUTH 1200 EAST  
city VERNAL  
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304738918	NBU 1022-4H-3		SENE	4	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	3/20/2009			<u>3/31/09</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 03/20/2009 AT 0930 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304738919	NBU 1022-4H-2		SENE	4	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	3/23/2009			<u>3/31/09</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 03/23/2009 AT 1100 HRS.							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

**RECEIVED**

**MAR 24 2009**

SHEILA UPCHEGO

Name (Please Print)

Signature

REGULATORY ANALYST

Title

3/24/2009

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU01191
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		6. If Indian, Allottee or Tribe Name
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078		7. If Unit or CA/Agreement, Name and/or No. UNIT #891008900A
3b. Phone No. (include area code) Ph: 435-781-7024		8. Well Name and No. NBU 1022-4H-3
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 4 T10S R22E SENE 2426FNL 1163FEL		9. API Well No. 43-047-38918
		10. Field and Pool, or Exploratory NATURAL BUTTES
		11. County or Parish, and State UINTAH COUNTY, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Well Spud
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE.  
CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 03/20/2009 AT 0930 HRS.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #68342 verified by the BLM Well Information System For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal		
Name (Printed/Typed)	SHEILA UPCHEGO	
Title	OPERATIONS	
Signature	Date 03/24/2009	
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>		
Approved By	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**RECEIVED**

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

**MAR 26 2009**

**DIV. OF OIL, GAS & MINING**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU01191
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		6. If Indian, Allottee or Tribe Name
Contact: SHEILA UPCHEGO Email: sheila.upchego@anadarko.com		7. If Unit or CA/Agreement, Name and/or No. UNIT #891008900A
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435-781-7024	8. Well Name and No. NBU 1022-4H-3
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 4 T10S R22E SENE 2426FNL 1163FEL		9. API Well No. 43-047-38918
		10. Field and Pool, or Exploratory NATURAL BUTTES
		11. County or Parish, and State UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

FINISHED DRILLING FROM 2168' TO 8870' ON 04/04/2009. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/350 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1100 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROP PLUG DISPLACE PIPE W/126.8 BBLs OF CLAY TREAT C ADN MAGNACIDE 575 BBL WATER LOST CIRC W/15 BBL CLEAN TO SURFACE 2430 PSI OF LIFT BUMP PLUG AND HOLD PRESSURE NIPPLE DOWN BOP CLEAN PITS.

RELEASED PIONEER RIG 68 ON 04/06/2009 AT 1430 HRS.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #68829 verified by the BLM Well Information System  
For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal

Name (Printed/Typed) SHEILA UPCHEGO

Title OPERATIONS

Signature

(Electronic Submission)

Date 04/08/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

APR 20 2009

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01191
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-4H-3
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2426 FNL 1163 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 04 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047389180000
<b>PHONE NUMBER:</b> 720 929-6007 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 10/9/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input checked="" type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> _____	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 10/9/2009 AT 9:00 A.M. PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> October 12, 2009		
<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/12/2009	

# Operation Summary Report

Well: NBU 1022-4H-3	Spud Conductor: 3/20/2009	Spud Date: 3/22/2009
Project: UTAH-UINTAH	Site: NBU 1022-4H-3	Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 2/27/2009	End Date: 4/6/2009
Active Datum: RKB @5,075.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/4/0/SENE/6/PM/N/2,426.00/E/0/1,163.00/0/0	

Date	Time Start-End	Duration (H)	Phase	Code	Sub Code	PAU	MD From (H)	Operation
3/22/2009	16:00 - 0:00	8.00	DRLSUR	02		P		MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1600 HR 3/22/09 W/ AIR HAMMER DA AT REPORT TIME 690'
3/23/2009	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLED TO 1320' HIT SOME WATER CONDITION HOLE PREPARE TO TFNB
	12:00 - 15:00	3.00	DRLSUR	06	A	P		TRIP DP OUT OF HOLE AND RIH W/ TRI CONE
	15:00 - 0:00	9.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 1410' DA
3/24/2009	0:00 - 9:00	9.00	DRLSUR	02		P		WHILE DRILLING WITH AIR RAT HOLE COMUINCATED WITH WELL BORE HAD TO TAKE AIR OFF HOLE 1650' DA
	9:00 - 13:30	4.50	DRLSUR	02		P		RIG DRILL TO 1680' LOST 12,000 LBS OF WEIGHT TWIST OFF COLLARS
	13:30 - 23:00	9.50	DRLSUR	19	A	Z		TOOH LOST 4 EA. 8" COLLARS IN HOLE RIH W/ FISHING TOOLS RETRIVE FISH LDDS AND FISH RIH W/ TRI CONE
	23:00 - 0:00	1.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP NO RETURNS 1690'
3/25/2009	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 5 BBL PER/MIN NO RETURNS 1780' DA
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP 6 BBL PER/MIN NO RETURNS 2050' DA.@ REPORT TIME
3/26/2009	0:00 - 5:00	5.00	DRLSUR	02		P		RIG T/D @ 2150' CONDITION HOLE 1 HR NO RETURNS
	5:00 - 8:00	3.00	DRLSUR	06		P		TRIP DP OUT OF HOLE
	8:00 - 11:00	3.00	DRLSUR	12		P		RUN 2113' OF 9 5/8 J-55 40# CSG AND RIG DOWN AIR RIG
	11:00 - 12:00	1.00	DRLSUR	12		P		CEMENT 1ST STATE WITH 300 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK NO RETURNS THRU OUT JOB
	12:00 - 12:30	0.50	DRLSUR	12		P		LAND PLUG FLOATS HELD 100 PSI LIFT
	12:30 - 15:00	2.50	DRLSUR	12		P		1ST TOP JOB 150 SKS DOWN BS WOC
	15:00 - 16:30	1.50	DRLSUR	12		P		2ND TOP JOB 200 SKS DOWN BS WOC
	16:30 - 16:30	0.00	DRLSUR					3RD TOP JOB 50 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
3/27/2009	19:30 - 0:00	4.50	DRLPRO	01	E	P		NO VISIBLE LEAKS PIT 10% FULL WORT RDRT
3/28/2009	0:00 - 7:30	7.50	DRLPRO	01	E	P		RDRT
	7:30 - 20:00	12.50	DRLPRO	01	A	P		( HELD SAFETY MEETING ) MOVE RIG TO NBU 1022-4H-3,MAN CAMPS 100% RIGGED UP,RIG 100% SET W/ DERRICK RAISED & SUB SCOPED.WAIT ON DAYLIGHTS TO SCOPE DERRICK. KURR TRUCKING 6 BED,2 HAUL,2 FORKLIFT,3 SWAMPERS,1 PUSHER RELEASED @ 2000. J & C ENTERPRISE 1 OPERATOR,3 SWAMPERS RELEASED @ 2100
	20:00 - 0:00	4.00	DRLPRO	01	B	P		RURT W/ DERRICK NOT SCOPED TO FULL MAST.
3/29/2009	0:00 - 8:00	8.00	DRLPRO	01	B	P		RURT,WAIT ON DAYLIGHT TO SCOPE DERRICK TO FULL MAST
	8:00 - 13:30	5.50	DRLPRO	01	B	P		SCOPE DERRICK TO FULL MAST & RURT
	13:30 - 18:00	4.50	DRLPRO	14	A	P		NIPPLE UP BOP,CHOKE,ETC

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# Operating Summary Report

Well: NBU 1022-4H-3	Spud Conductor: 3/20/2009	Spud Date: 3/22/2009
Project: UTAH-UINTAH	Site: NBU 1022-4H-3	Rig Name No: PROPETRO/, PIONEER 68/68
Event: DRILLING	Start Date: 2/27/2009	End Date: 4/6/2009
Active Datum: RKB @5,075.00ft (above Mean Sea Level)		UWI: 0/10/S/22/E/4/0/SENE/6/PM/N/2,426.00/E/0/1,163.00/0/0

Date	Time Start-End	Direction (deg)	Phase	Code	Sub Code	PU	MD From (ft)	Operation
3/30/2009	18:00 - 22:30	4.50	DRLPRO	15	A	P		( HELD SAFETY MEETING ) TEST PIPE RAMS,BLIND RAMS,CHOKE VALVES & ALL FLOOR RELATED VALVES 250 PSI LOW 5000 PSI HIGH,TEST HYDRILL 250 PSI LOW 5000 PSI HIGH,TEST CSG TO 1500 PSI & HOLD 30 MIN. SLIP & CUT DRLG LINE
	22:30 - 0:00	1.50	DRLPRO	09	A	P		( HELD SAFETY MEETING )INSTALL WEAR RING, RIG UP KIMZEY LD TRUCK.PICK UP BHA & KELLY UP TO TEST MWD TOOLS.OK! PICK UP 45 JTS DP TO 2002', RIG DOWN KIMZEY
	0:00 - 6:00	6.00	DRLPRO	06	A	P		DO PRE SPUD RIG INSPECTION,CIRC THRU GAS BUSTER. REPAIR LEAKS. DRILL CEMENT TO 2072'
	6:00 - 7:00	1.00	DRLPRO	07	A	P		# 1 PUMP HAS WASH IN HARDLINE, WAITING ON WELDER. # 2 PUMP HAS LEAK ON NEW MODULE FLUID CROSS. HAD TO PULL MUDULE ON # 2 PUMP.
	7:00 - 7:30	0.50	DRLPRO	02	F	P		DRILL CMT & FLOAT EQUIPMENT & 39' PREDRILLED HOLE TO 2168'. CMT TOP 2036', FLOAT TOP 2086', SHOE TOP 2129'
3/31/2009	7:30 - 15:30	8.00	DRLPRO	08	B	S		DRILL 2168' - 2961'793' TOTAL, 93.2 FPH, GPM 473, MOTOR RPM 104, ROTARY RPM 45, PSI ON/OFF 1353,995, PU/SO/ROT 83/80/78, DIFF 358, SWEEPING HOLE W/ ANCO DRILL & GEL SWEEPS
	15:30 - 17:00	1.50	DRLPRO	02	F	P		DRILL 2961' - 3782' (821', 102'/hr) WOB 18K RPM 50 MOT RPM 104 GPM 473 PSI ON/OFF 1500/1200, PU/SO/ROT 98/96/97, DIFF 300, CIRC. RESERVE PIT.SWEEPING HOLE W/ ANCO DRILL & GEL SWEEPS
	17:00 - 0:00	7.00	DRLPRO	02	B	P		REMOVE RUBBER PLUG FROM FLOWLINE. DRILL 3782' - 4763' (981', 115'/HR) WOB 12-18K RPM 45-55 MOT RPM 104 GPM 473, , PSI ON/OFF 1600/1300, PU/SO/ROT 120/115/118, DIFF 300, CIRC RESERVE PIT. SWEEPING HOLE W/ ANCO DRILL & GEL SWEEPS. REDUCED WOB AND INCREASE ROT @ 4145' TO CONTROL HOLE DEV.
	0:00 - 8:00	8.00	DRLPRO	02	B	P		RIG SERVICE. FUNCTION BOP'S
	8:00 - 9:00	1.00	DRLPRO	14	C	P		DRILL F/ 4763' -5079' (316', 126'/HR) WOB 12-18K RPM 45-55 MOT RPM 104 GPM 473 , PSI ON/OFF 1650/1300, PU/SO/ROT 120/115/118, DIFF 350, SWEEPING HOLE W/ ANCO DRILL & GEL SWEEPS.
4/1/2009	9:00 - 17:30	8.50	DRLPRO	02	B	P		REPLACE RUBBER ON FLOWLINE AT DIVERTOR THAT WAS BLOWN WHEN RUBBER PLUGGED FLOW LINE.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		DRILL F/ 5079' -5394' ( 315', 105'/HR) WOB 18K RPM 50 MOT RPM 104 GPM 473,PSI ON/OFF 1650/1350, PU/SO/ROT 125/120/122, DIFF 300, CIRC RESERVE PIT. SWEEPING HOLE W/ ANCO DRILL & GEL SWEEPS.
	18:00 - 20:30	2.50	DRLPRO	02	B	P		DRILL 5394'-5834' (440', 73'/HR) WOB 20K RPM 50 MOT RPM 104 GPM 473,PSI ON/OFF 1700/1400, PU/SO/ROT 137/128/132, DIFF 300, CIRC RESERVE PIT. SWEEPING HOLE W/ ANCO DRILL & GEL SWEEPS.
	20:30 - 21:00	0.50	DRLPRO	14	C	P		RIG SERVICE, FUNCTION BOP'S
	21:00 - 0:00	3.00	DRLPRO	02	B	P		
4/1/2009	0:00 - 6:00	6.00	DRLPRO	02	B	P		
	6:00 - 6:30	0.50	DRLPRO	07	A	P		

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# NBU 1022-4H-3 Operation Summary Report

Well: NBU 1022-4H-3      Spud Conductor: 3/20/2009      Spud Date: 3/22/2009

Project: UTAH-UINTAH      Site: NBU 1022-4H-3      Rig Name No: PROPETRO/, PIONEER 68/68

Event: DRILLING      Start Date: 2/27/2009      End Date: 4/6/2009

Active Datum: RKB @5,075.00ft (above Mean Sea Level)      UWI: 0/10/S/22/E/4/0/SENE/6/PM/N/2,426.00/E/0/1,163.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Job Code	P/O	MD From (ft)	Operation
4/2/2009	6:30 - 0:00	17.50	DRLPRO	02	B	P		DRILL 5834'- 7140' (1306', 75'/HR) WOB 20K RPM 50 MOT RPM 104 GPM 473, PSI ON/OFF 1900/1600, PU/SO/ROT 169/160/165, DIFF 300, START MUD UP @ 6500' MUD WT 9.7 VIS 36 WT.
	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL 7140'- 7397' (257', 43'/HR) WOB 20K RPM 50 MOT RPM 104 GPM 473, PSI ON/OFF 2000/1700, PU/SO/ROT 169/155/160, DIFF 300, MUD WT 9.8 VIS 36
	6:00 - 8:30	2.50	DRLPRO	08	A	Z		ROTARY MOTOR WENT DOWN DUE TO COOLANT LEVEL, THEN AIR STARTER WENT OUT. REPLACE STARTER. STARTED LOSING MUD 30 BBLS/HR WHILE CIRC. @ 9.8 MUD WT. INCREASED LCM TO 4%
	8:30 - 9:00	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION BOP'S.
	9:00 - 16:00	7.00	DRLPRO	02	B	P		DRILL 7397'-7624' (227', 32'/hr) WOB 25K RPM 50 MOT RPM 104 GPM 473, PSI ON/OFF 2200/1900, PU/SO/ROT 172/156/162, DIFF 300, MUD WT 9.8 VIS 38 LCM 8%. INCREASED LCM 6% DUE TO SEEPAGE 10 BBLS/HR ROP REDUCED TO 20'/HR AND MWD PRESSURE UP DUE TO LCM 2900 PSI.
4/3/2009	16:00 - 17:00	1.00	DRLPRO	05	C	P		MIX DRY JOB, DROP MULTISHOT SURVEY, PUMP DRY JOB.
	17:00 - 0:00	7.00	DRLPRO	06	A	P		TRIP OUT OF HOLE. NO TIGHT HOLE. STRING PLUGGED UP ON TRIP OUT. PULLED WET. LD MWD, IBS, AND BENT HOUSING MOTOR. LD BIT #1.
	0:00 - 5:00	5.00	DRLPRO	06	A	P		FUNCTION BLIND RAMS, PICK UP STRAIGHT MOTOR .16 RPM AND MAKE UP BIT #2. TRIP IN HOLE. FILL PIPE @ 2200'. TRIP TO BOTTOM. NO FILL.
	5:00 - 6:00	1.00	DRLPRO	02	B	P		DRILL 7624'- 7670' WOB 15K RPM 50 MOT RPM 75 GPM 473, PSI ON/OFF 2200/1900, PU/SO/ROT 167/148/156, DIFF 300, MUD WT 9.8 VIS 38 LCM 8% 12-14' FLARE W/ 6000u TRIP GAS.
	6:00 - 6:30	0.50	DRLPRO	07	B	P		RIG SERVICE, FUNCTION BOP'S
4/4/2009	6:30 - 20:00	13.50	DRLPRO	02	B	P		DRILL F/ 7670'-8259' (589', 43'/HR) WOB 18- 25K RPM 50 MOT RPM 75 GPM 473, PSI ON/OFF 2400/2100, PU/SO/ROT 175/150/165, DIFF 300, MUD WT 10.5 VIS 41 LCM 12% BIT ROP SLOW DOWN.
	20:00 - 21:00	1.00	DRLPRO	05	C	P		MIX DRY JOB AND PUMP. DROP SURVEY.
	21:00 - 0:00	3.00	DRLPRO	06	A	P		TRIP OUT OF HOLE, NOT TIGHT HOLE. 4000' @ REPORT TIME... NO WELL FLOW.
	0:00 - 3:00	3.00	DRLPRO	06	A	P		TRIP OUT OF HOLE, NO TIGHT HOLE. LD BIT #2. WORK BLIND RAMS.
	3:00 - 9:00	6.00	DRLPRO	06	A	P		MAKE UP BIT #3 TRIP IN HOLE, FILL PIPE @ 2200' AND 6000'. NO TIGHT HOLE ON TRIP IN. NO LOSSES ON TRIP.
	9:00 - 12:00	3.00	DRLPRO	02	B	P		DRILL 8259'-8430' (171', 57'/HR) WOB 18 RPM 50 MOT RPM 75 GPM 473, PSI ON/OFF 2400/2100, PU/SO/ROT 175/150/165, DIFF 300, MUD WT 10.7 VIS 41 LCM 13% (15'-25' FLARE TRIP GAS.)
	12:00 - 12:30	0.50	DRLPRO	07	A	P		SERVICE RIG AND FUNCTION PIPE RAMS AND ANNULAR.
	12:30 - 23:00	10.50	DRLPRO	02	B	P		DRILL 8430'- 8870' (440', 42'/HR) TD 8870' 23:00 04/04/2009. WOB 18 RPM 50 MOT RPM 75 GPM 473, PSI ON/OFF 2500/2200, PU/SO/ROT 183/173/165, DIFF 300, MUD WT 11 VIS 41 LCM 13%

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# OPERATION SUMMARY REPORT

Well: NBU 1022-4H-3      Spud Conductor: 3/20/2009      Spud Date: 3/22/2009

Project: UTAH-UINTAH      Site: NBU 1022-4H-3      Rig Name No: PROPETRO/, PIONEER 68/68

Event: DRILLING      Start Date: 2/27/2009      End Date: 4/6/2009

Active Datum: RKB @5,075.00ft (above Mean Sea Level)      UWI: 0/10/S/22/E/4/0/SENE/6/PM/N/2,426.00/E/0/1,163.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	RAJ	MD From (ft)	Operation
	23:00 - 0:00	1.00	DRLPRO	05	C	P		CIRC AND CONDITION HOLE FOR SHORT TRIP AND LOGS. MUD WT 11# VIS 41 LCM 13% BG GAS= 1300u
4/5/2009	0:00 - 1:00	1.00	EVALPR	06	E	P		SHORT TRIP TO 8100'. NO TIGHT HOLE. NO FLOW. TRIP GAS= 4656u, 20' FLARE.
	1:00 - 3:00	2.00	EVALPR	05	A	P		CIRC AND CONDITION HOLE. HOLD SAFETY MEETING W/ KIMZEY CSG AND RIG UP. MIX AND PUMP DRY JOB. 1450u BG GAS. MUD WT 11.1 VIS 44 LCM 13%
	3:00 - 12:00	9.00	EVALPR	06	A	P		LD BHA, BREAK KELLY, UNISNTALL ROT. RUBBER. LD BHA. PULL WEAR BUSHING. NO FLOW THROUGH OUT, NO TIGHT HOLE
	12:00 - 17:00	5.00	EVALPR	11	D	P		HOLD SAFETY MEETING W/ HALIBURTON AND RUN TRIPLE COMBO. LOGGERS DEPTH 8880'. RIG DOWN HALIBURTON
	17:00 - 17:30	0.50	CSG	12	A	P		HOLD SAFETY MEETING W/ KIMZEY CSG. RIG UP CSG CREW.
	17:30 - 0:00	6.50	CSG	12	C	P		RUN 209 JTS OF 4.5" I-80 11.6# CSG, TAG BOTTOM 8880'. LAND CSG W/ FMC MANDREL @ 8860' KB, TOP OF FLOAT @ 8815' KB. MARKER SET @ 4274' KB. RUN CENTRILIZERS FIRST 3 JT, THEN EVERY 3RD JT (15 CENTRILIZERS TOTAL). FILLED PIPE @ 1500' AND 5500'.
	0:00 - 1:00	1.00	CSG	12	C	P		RUN 209 JTS OF 4.5" I-80 11.6# CSG, TAG BOTTOM 8880'. LAND CSG W/ FMC MANDREL @ 8860' KB, TOP OF FLOAT @ 8815' KB. MARKER SET @ 4274' KB. RUN CENTRILIZERS FIRST 3 JT, THEN EVERY 3RD JT (15 CENTRILIZERS TOTAL). FILLED PIPE @ 1500' AND 5500'.
4/6/2009	1:00 - 2:30	1.50	CSG	05	D	P		CIRC OUT GAS 20-25' FLARE, RIG DOWN KIMZEY CSG, HOLD SAFETY MEETING W/ BJ SERVICES.
	2:30 - 4:30	2.00	CSG	12	E	Z		PRESSURE TEST, START CEMENT, PROBLEMS MIXING CEMENT, TRY TROUBLE SHOOT, CIRC OUT 20 BBLS OF CEMENT W/ RIG.
	4:30 - 7:30	3.00	CSG	12	E	P		PRESSURE TEST, PUMP 20 BBLS MUD CLEAN, 20 BBLS OF FRESH WATER SPACER, PUMP 350 SX (210 BBLS) 11# 3.38 YD 20.52 GPS OF HI FILL LEAD CEMENT, PUMP 1100 SX (256 BBLS) 14.3# 1.31YD 5.90 GPS OF 50/50 POZ TAIL CEMENT, DROP PLUG DISPLACE PIPE W/ 126.8 BBLS OF CLAYTREAT C AND MAG 575 WATER 8.34#.
	7:30 - 9:00	1.50	CSG	14	B	P		LOST CIRC W/ 15 BBLS TO GO. MUD CLEAN TO SURFACE. 2430 PSI OF LIFT, BUMP PLUG AND HOLD PRESSURE 3081, FLOAT HELD, RIG DOWN BJ SERVICE.
	9:00 - 14:30	5.50	CSG	14	A	P		FLUSH OUT STACK, LAYDOWN LANDING JT, RUN IN W/ PACKING GLAND FOR WELL HEAD, FMC PACKED OFF AND TESTED WELL HEAD. STORE 800 BBLS OF MUD.
								NIPPLE DOWN BOP, BREAK DOWN FMC LOCKDOWN FLANGE (PREPARE FOR FMC RELEASE) CLEAN PITS, EXTRA CUTTING IN PITS. RELEASE RIG 14:30. MOVE OUT FRONT YARD.

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# UTAH-UINTAH REGION Operation Summary Report

Well: NBU 1022-4H-3 Spud Conductor: 3/20/2009 Spud Date: 3/22/2009  
 Project: UTAH-UINTAH Site: NBU 1022-4H-3 Rig Name No: GWS 1/1  
 Event: COMPLETION Start Date: 10/1/2009 End Date: 10/7/2009  
 Active Datum: RKB @5,075.00ft (above Mean Sea Level) UWI: 0/10/S/22/E/4/0/SENE/6/PM/N/2,426.00/E/0/1,163.00/0/0

Date	Time Start-End	Duration (H)	Phase	Code	Sub Code	RU	MD From (ft)	Operation
4/16/2009	-							
10/1/2009	7:00 - 7:30	0.50	COMP	48		P		HSM, ROADING RIG AND EQUIP.
	7:30 - 9:00	1.50	COMP	30	A	P		RDMOL @ NBU 265, MIRU,
	9:00 - 17:00	8.00	COMP	31	I	P		ND WH NU BOPS, RU FLOOR AND TBG EQUIP. PU 37/8 MILL & BIT SUB & 216 JTS 23/8 J-55.eot @ 6815'. POOH W/ 108 STANDS L/D MILL. ND BOPS NU FRAC VALVE, SWI SDFN.
10/2/2009	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ CSG TESTER, AND WIRE LINE.
	7:30 - 15:00	7.50	COMP	33	C	P		SICP 0, RU B&C QUICK TEST,TEST CSG TO 6200 PSI. RD TESTERS. RU SCHLIMBERGER WIRE LINE. RIH W/ 31/8" EXP GUNS, 23 GRM, .36" HOLES , 180 & 90 DEG PHASING. PERF MV F/ 8750'-8753' 4 SPF 12 HLS, 8676'-8683' 4 SPF 28 HLS, 8642'-8644' 2 SPF 4 HLS TOTAL 44 HOLES. POOH PREP TO FRAC ON 10/5/09. SWI SDFWE.
10/5/2009	7:00 - 7:30	0.50	COMP	48		P		HSM. FRACING & PERFORATING
	7:30 - 8:20	0.83	COMP	36	B	P		MIRU SCHLUMBERGER TO FRAC & PERFORATE. STG 1) WHP 0 PSI, BRK @ 3,996 PSI @ 5.3 BPM, ISIP 2,450 PSI, FG .71. PUMP 100 BBLS @ 49.5 bpm @ 4,500 PSI= 100% HOLES OPEN. MP 6,403 PSI, MR 50.5 BPM, AP 4,472 PSI, AR 46.7 BPM, ISIP 2,800 PSI, FG .75, NPI 350 PSI. PUMP 2,688 BBLS OF SW & 97,388 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN. TOTAL PROP 102,388 LBS.
	8:20 - 10:45	2.42	COMP	36	B	P		STG 2) PU 4 1/2" 8K HALLIBURTON CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 180 DEG PHASING. RIH SET CBP @ 8,564' & PERF 8,750' - 53' 4SPF, 8,676' - 83' 4SPF, 8,642' - 44' 2SPF, 44 HOLES. WHP 460 PSI, BRK @ 3,879 PSI @ 5.3 BPM, ISIP 2,550 PSI, FG .73. PUMP 100 BBLS @ 50.3 BPM @ 5,800 PSI= 100% HOLES OPEN. MP 5,560 PSI, MR 50.7 BPM, AP 4,250 PSI, AR 45.7 BPM, ISIP 2,700 PSI, FG .75, NPI 150 PSI. PUMP 1,092 BBLS OF SW & 38,209 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN. TOTAL PROP 43,209 LBS.
	10:45 - 12:20	1.58	COMP	36	B	P		STG 3) PU 4 1/2" 8K HALLIBURTON CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 & 180 DEG PHASING. RIH SET CBP @ 8,323' & PERF 8,290' - 93' 3SPF, 8,232' - 41' 3SPF, 8,174' - 76' 2SPF, 40 HOLES. WHP 1,350 PSI, BRK @ 3,383 PSI @ 5.3 BPM, ISIP 2,400 PSI, FG .72. PUMP 100 BBLS @ 50.2 BPM @ 4,800 PSI= 100% HOLES OPEN. MP 5,650 PSI, MR 50.8 BPM, AP 4,326 PSI, AR 46 BPM, ISIP 2,700 PSI, FG .76, NPI 300 PSI. PUMP 1,225 BBLS OF SW & 44,528 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN. TOTAL PROP 49,528 LBS.

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Well: NBU 1022-4H-3		Spud Conductor: 3/20/2009		Spud Date: 3/22/2009	
Project: UTAH-UINTAH		Site: NBU 1022-4H-3			Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 10/1/2009		End Date: 10/7/2009	
Active Datum: RKB @5,075.00ft (above Mean Sea Level)		UWI: 0/10/S/22/E/4/0/SENE/6/PM/N/2,426.00/E/0/1,163.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	PU	NO From (#)	Operation
	12:20 - 13:55	1.58	COMP	36	B	P		STG 4) PU 4 1/2" 8K HALLIBURTON CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90, 120 & 180 DEG PHASING. RIH SET CBP @ 8,130' & PERF 8,105' - 08' 3SPF, 8,070' - 76' 4SPF, 8,002' - 04' 2SPF, 7,940' - 42 2SPF, 41 HOLES. WHP 742 PSI, BRK @ 2,721 PSI @ 5.3 BPM, ISIP 2,200 PSI, FG .70. PUMP 100 BBLS @ 50 BPM @ 3,600 PSI = 94% HOLES OPEN. MP 5,228 PSI, MR 50.8 BPM, AP 4,038 PSI, AR 46.2 BPM, ISIP 2,500 PSI, FG .74, NPI 300 PSI. PUMP 1,274 BBLS OF SW & 46,665 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN. TOTAL PROP 51,665 LBS.
	13:55 - 16:00	2.08	COMP	36	B	P		STG 5) PU 4 1/2" 8K HALLIBURTON CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90, 120 & 180 DEG PHASING. RIH SET CBP @ 7,875' & PERF 7,847' - 49' 4SPF, 7,791' - 94' 4SPF, 7,726' - 28' 3SPF, 7,670' - 73 4SPF, 7,634' - 36' 2SPF, 42 HOLES. WHP 1,166 PSI, BRK @ 2,679 PSI @ 5.3 BPM, ISIP 1,900 PSI, FG .68. PUMP 100 BBLS @ 51 BPM @ 4,000 PSI = 100% HOLES OPEN. MP 4,588 PSI, MR 50.8 BPM, AP 3,674 PSI, AR 46.6 BPM, ISIP 2,300 PSI, FG .73, NPI 400 PSI. PUMP 2,087 BBLS OF SW & 70,624 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN. TOTAL PROP 75,624 LBS.
	16:00 - 17:30	1.50	COMP	34	H	P		STG 6) PU 4 1/2" 8K HALLIBURTON CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90, 120 & 180 DEG PHASING. RIH SET CBP @ 7,520' & PERF 7,469' - 72' 4SPF, 7,448' - 50' 4SPF, 7,372' - 73' 3SPF, 7,309' - 13 4SPF, 7,274' - 76' 2SPF, 43 HOLES. SWI SDFN.
10/6/2009	7:00 - 7:30	0.50	COMP	48		P		HSM. FRACING & PERFORATING & MOVING OFF FRAC & PERFORATING TRKS.
	7:30 - 8:00	0.50	COMP	36	B	P		STG 6) WHP 1,321 PSI, BRK @ 3,364 PSI @ 5.3 BPM, ISIP 1,600 PSI, FG .65. PUMP 100 BBLS @ 49.8 BPM @ 4,200 PSI = 73% HOLES OPEN. MP 4,702 PSI, MR 50.3 BPM, AP 3,697 PSI, AR 46.1 BPM, ISIP 2,400 PSI, FG .76, NPI 800 PSI. PUMP 986 BBLS OF SW & 33,776 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN. TOTAL PROP 38,776 LBS.
	8:00 - 9:50	1.83	COMP	36	B	P		STG 7) PU 4 1/2" 8K HALLIBURTON CBP & 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90, 120 & 180 DEG PHASING. RIH SET CBP @ 7,140' & PERF 7,106' - 10' 4SPF, 7,000' - 02' 4SPF, 6,968' - 70' 2SPF, 6,934' - 36 3SPF, 6,922' - 24' 4SPF, 42 HOLES. WHP 300 PSI, BRK @ 2,292 PSI @ 5.3 BPM, ISIP 1,550 PSI, FG .65. PUMP 100 BBLS @ 51.4 BPM @ 3,770 PSI = 91% HOLES OPEN. MP 4,323 PSI, MR 53.9 BPM, AP 3,639 PSI, AR 50.9 BPM, ISIP 2,400 PSI, FG .77, NPI 850 PSI. PUMP 2,087 BBLS OF SW & 91,700 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN. TOTAL PROP 96,700 LBS.

RECEIVED October 12, 2009



# Completion Summary Report

Well: NBU 1022-4H-3	Spud Conductor: 3/20/2009	Spud Date: 3/22/2009
Project: UTAH-UINTAH	Site: NBU 1022-4H-3	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 10/1/2009	End Date: 10/7/2009
Active Datum: RKB @5,075.00ft (above Mean Sea Level)	UWI: 0/10/S/22/E/4/0/SENE/6/PM/N/2,426.00/E/0/1,163.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/O	MO From (ft)	Operation
	9:50 - 15:00	5.17	COMP	31	I	P		KILL PLG) PU 4 1/2" 8K HALLIBURTON CBP. RIH SET @ 6,860' RDMD SLB PUMPING SERVICES & SLB WIRE LINE. ND FRAC VALVES NU BOP. PU 3 7/8" MILL & POBS. RIH W/ 216 JTS EOT @ 6,815' RU POWER SWIVEL. SWI SDFN. HSM. DRILLING CBP'S W/ PRESSURE. PINCH POINTS
10/7/2009	7:00 - 7:30	0.50	COMP	48		P		BRK CIRC W/ 2% TMAC. RIH CO 10' OF SAND TAG PLG 1 @ 6,860' DRL PLG IN 20 MIN 1,400 PSI INCREASE. RIH
	7:30 - 16:00	8.50	COMP	44	C	P		C/O 25' OF SAND TAG PLG 2 @ 7,140' DRL PLG IN 4 MIN. 600 PSI INCREASE. RIH  C/O 40' OF SAND TAG PLG 3 @ 7,520' DRL PLG IN 9 MIN. 800 PSI INCREASE. RIH  C/O 25' OF SAND TAG PLG 4 @ 7,875' DRL PLG IN 5 MIN. 300 PSI INCREASE. RIH  C/O 20' OF SAND TAG PLG 5 @ 8,130 DRL PLG IN 5 MIN. 700 PSI INCREASE. RIH  C/O 20' OF SAND TAG PLG 6 @ 8,323' DRL PLG IN 8 MIN. 1,200 PSI INCREASE. RIH  C/O 30' OF SAND TAG PLG 7 @ 8,564 DRL PLG IN 7 MIN. 700 PSI INCREASE. RIH  C/O TO 8,807' PBTD. CIRCULATE WELL CLEAN. LD 14 JTS OF 2 3/8" J-55 TBG. LAND TBG W/ 265 JTS OF 2 3/8" J-55 4.7#. EOT @ 8,366.41'. ND BOP NU WELL HEAD DROP BALL TO SHEAR OFF BIT. PUMP OFF BIT @ 2,800 PSI. TURN WELL OVER TO FLOW TESTERS.  RIG DOWN RIG WILL MOVE IN AM.  OUTBOUND 283 JTS LANDED 265 JTS RETURNED 18 JTS RETURNED. 7 AM FLBK REPORT: CP 2825#, TP 2125#, 20/64" CK, 68 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 4940 BBLS LEFT TO RECOVER: 6735
10/8/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3500#, TP 2500#, 20/64" CK, 50 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 6275 BBLS LEFT TO RECOVER: 5400
10/9/2009	7:00 -			33	A			WELL TURNED TO SALE @ 0900 HR ON 10/9/09 - FTP 2500#, CP 3500#, 2 MCFD, 50 BWPD, 18/64 CK
	9:00 -		PROD	50				7 AM FLBK REPORT: CP 3450#, TP 2600#, 18/64" CK, 30 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 7125 BBLS LEFT TO RECOVER: 4550
10/10/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3425#, TP 2650#, 16/64" CK, 18 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 7600 BBLS LEFT TO RECOVER: 4075
10/11/2009	7:00 -			33	A			

RECEIVED October 12, 2009

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01191			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-4H-3			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2426 FNL 1163 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 04 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047389180000			
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES			
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/9/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION           </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER           </td> <td style="width: 33%; vertical-align: top;"> <input checked="" type="checkbox"/> <b>CASING REPAIR</b>  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> <b>CASING REPAIR</b> <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedures for the proposed repair work on the subject well location.					
<b>Accepted by the Utah Division of Oil, Gas and Mining</b>		<b>Date:</b> 03/10/2011 <b>By:</b>			
<b>NAME (PLEASE PRINT)</b> Gina Becker		<b>PHONE NUMBER</b> 720 929-6086			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst II			
<b>DATE</b> 3/9/2011					

**WORKORDER #: 88122150**

Name: **NBU 1022-4H-3**  
Surface Location: SENE SEC.4 T10S, R22E  
Uintah County, UT

3/4/11

API: 4304738918 LEASE#: UTU-01191

ELEVATIONS: 5057' GL 5075' KB

TOTAL DEPTH: 8870' PBTD: 8817'

SURFACE CASING: 9 5/8", 40# J-55 @ 2132'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 8860'  
TOC @ 530 per CBL

PERFORATIONS: Mesaverde 6922' – 8753'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02173	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.01554
9.625" 40# J-55	8.679	2570	3950	3.1847	0.4257	0.0758
<b>Annular Capacities</b>						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01006

**GEOLOGICAL TOPS:**

1203' Green River  
1955' Mahogany  
4311' Wasatch  
6838' Mesaverde

## **NBU 1022-4H-3 – WELLHEAD REPLACEMENT PROCEDURE**

### **PREP-WORK PRIOR TO MIRU:**

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

### **WORKOVER PROCEDURE:**

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure ).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. Pooh w/ tubing.
5. Rig up wireline service. RIH and set CBP @ ~6872'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service.
6. Remove BOP and ND WH.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

### **CUT/PATCH PROCEDURE:**

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 1 joint of 3 ½" IF drill pipe with 4 ½" right hand standard grapple overshot. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to +/- 7000 ft-lbs, count number of turns to make-up, and document in the daily report. Release overshot, POOH, and lay down.
4. PU & RIH w/ 4 ½" 10k external casing patch on 4 ½" I-80 or P-110 casing.
5. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
6. Install C-22 slips. Land casing w/ 80,000# tension.
7. Cut-off and dress 4 ½" casing stub.
8. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6822'. Clean out to PBTD (8817').
9. POOH, land tbg and pump off POBS.
10. NUWH, RDMO. Turn well over to production ops.

### **BACK-OFF PROCEDURE:**

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
2. POOH, LD cutters and casing.
3. PU 4 ½" overshot. RIH, latch fish. Pick string weight to neutral.
4. MIRU wireline services. RIH and shoot string shot at casing collar @ 46'.
5. MIRU casing crew.
6. Back-off casing, POOH.
7. PU new casing joint w/ entry guide and RIH. Tag casing top. Thread into casing and torque up to +/- 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report.
8. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
9. Install C-22 slips. Land casing w/ 80,000# tension.

10. Cut-off and dress 4 ½" casing stub.
11. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6822'. Clean out to PBTD (8817').
12. POOH, land tbg and pump off POBS.
13. NUWH, RDMO. Turn well over to production ops.



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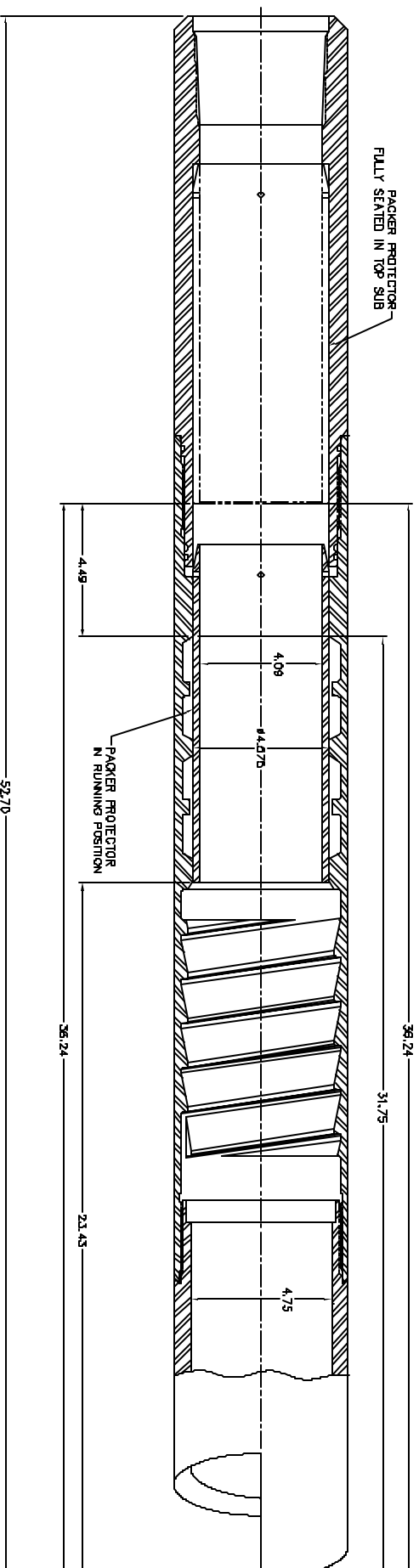
## **Logan High Pressure Casing Patches Assembly Procedure**

All parts should be thoroughly greased before being assembled.

1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

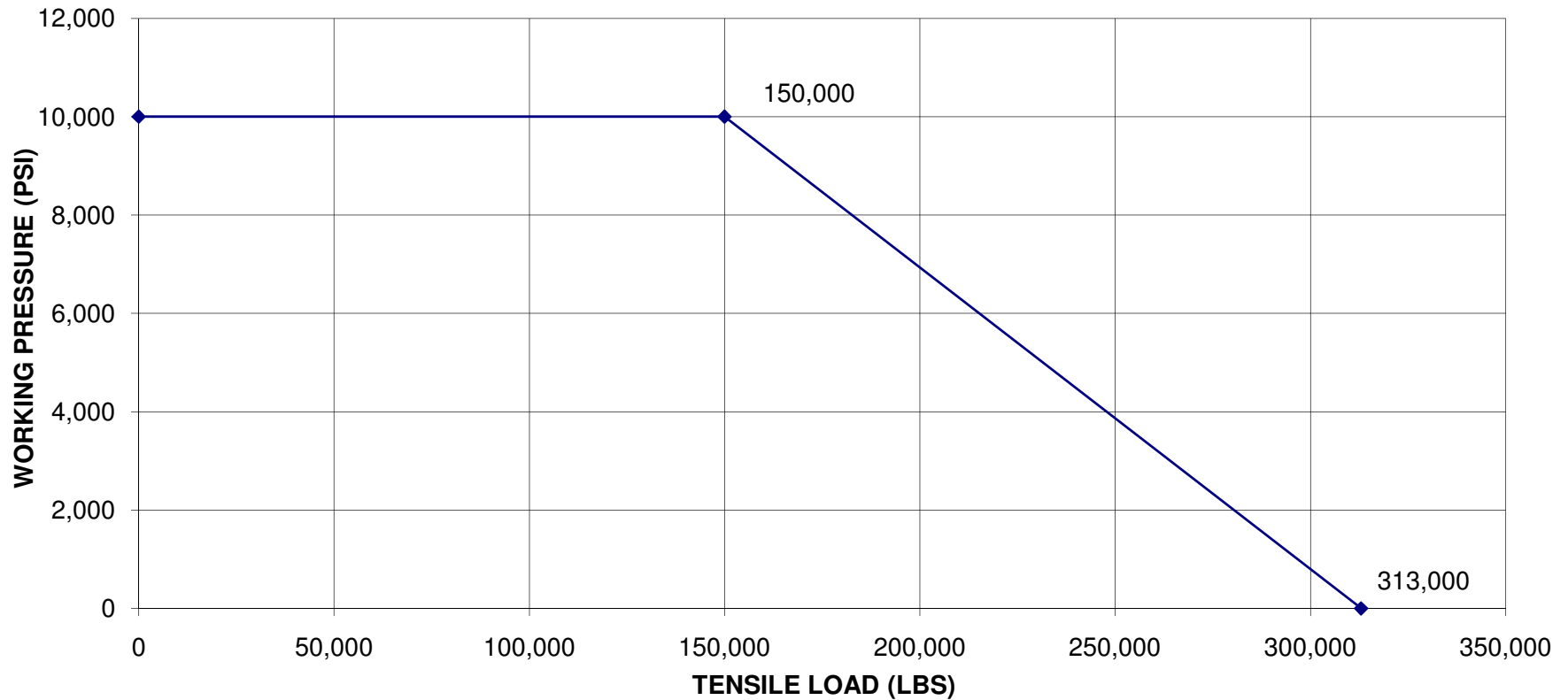
Follow recommended Make-Up Torque as provided in chart.

510L-005-001 4-1/2" LOGAN HP CASING PATCH





**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH  
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L  
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:  
11,222 PSI @ 0 TENSILE  
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:  
Tensile Strength w/ 0 Int. Press.= 472,791lbs.  
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01191			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>8. WELL NAME and NUMBER:</b> NBU 1022-4H-3			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>9. API NUMBER:</b> 43047389180000			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2426 FNL 1163 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 04 Township: 10.0S Range: 22.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/7/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input checked="" type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION          OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> The operator requests authorization to Temporarily Abandon or Shut-In the subject well to accommodate recompletion drilling operations for the referenced well location. Please see the attached procedure. This is a courtesy copy for the referenced Federal Well with lease #UTU01191. <div style="text-align: center;">Thank you.</div> <div style="text-align: right;"> <b>Accepted by the          Utah Division of          Oil, Gas and Mining</b>   <b>Date:</b> March 11, 2014  <b>By:</b> <u><i>Dark Quist</i></u> </div>					
<b>NAME (PLEASE PRINT)</b> Matthew P Wold		<b>PHONE NUMBER</b> 720 929-6993			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst I  <b>DATE</b> 3/7/2014			

Well Name: **NBU 1022-4H-3**  
 Surface Location: SENE Sec. 4, T10S, R22E  
 Uintah County, UT

2/26/14

**Recommended action for disposition of well bore:**

This well will be temporarily abandoned to accommodate drilling operations in one of 2 ways. We will either plug the wellbore as outlined in the attached procedure or Shut-In in the following manner: a) Kill well, pull EOT to above top set of perms, install tubing hanger with internal threads and set VR plug, install a flange over the tbg hanger, removal of master valve, set VR plugs in casing head at surface, and removal of casing wing valves, replaced with blind flanges.

API: 4304738918 LEASE#: U-01191  
 ELEVATIONS: 5057' GL 5075' KB  
 TOTAL DEPTH: 8870' PBTD: 8817'  
 SURFACE CASING: 9 5/8", 36# J-55 @ 2133'  
 PRODUCTION CASING: 4 1/2", 11.6# I-80 @ 8860'  
 Estimated TOC @ 530' per CBL  
 PRODUCTION TUBING: 2 3/8" J-55 TBG @ 8378' (workover rpt 3/29/11)  
 PERFORATIONS: MESAVERDE 6922' - 8753'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.921	2020	3520	3.247	0.434	0.0773
<b>Annular Capacities</b>						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01

**GEOLOGICAL TOPS:**

4311' Wasatch  
 6838' Mesaverde

**NBU 1022-4H-3 TEMPORARY ABANDONMENT PROCEDURE**

**GENERAL**

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY BLM/UDOGM 24 HOURS BEFORE MOVING ON LOCATION.

**PROCEDURE**

**Note: An estimated 24 sx of cement needed to perform procedure.**

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE. PULL TUBING.
2. RU WIRELINE. ENSURE WELLBORE IS CLEAN. **A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.**
3. RUN GYRO SURVEY.
4. **PLUG #1, ISOLATE MV PERFORATIONS (6922' – 8753'):** RIH W/ 4 ½" CBP. SET @ ~6865'. RELEASE CBP, PUH 10', BRK CIRC W/ FRESH WATER. PRESSURE TEST CASING TO 500 PSI. INFORM ENGINEERING IF IT DOESN'T TEST. DISPLACE A MINIMUM OF **8 SX/ 1.6 BBL/ 9.2 CUFT.** ON TOP OF PLUG. PUH ABOVE TOC (~6765'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
5. **PLUG #2, PROTECT TOP OF WASATCH (4311'):** PUH TO ~4415'. BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **16 SX / 3.3 BBL / 18.3 CUFT** AND BALANCE PLUG W/ TOC @ ~4206' (210' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED FRESH WATER.
6. LOWER WELLHEAD TO GROUND LEVEL TO ACCOMMODATE DRILLING OPS AND INSTALL MARKER PER UDOGM GUIDELINES.
7. RDMO. TURN OVER TO DRILLING OPERATIONS.

HMP 2/26/14

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01191
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-4H-3
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2426 FNL 1163 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 04 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047389180000
<b>10. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>COUNTY:</b> UINTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>STATE:</b> UTAH
<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/23/2014  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<b>TYPE OF ACTION</b>  <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input checked="" type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION           OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> The operator has concluded the temporary abandonment operations on the subject well location on 6/23/2014. This well was plugged in order to expand and drill the NBU 1022-4H Pad wells. Please see the attached chronological well history for details. Thank you.		
<b>NAME (PLEASE PRINT)</b> Matthew P Wold		<b>PHONE NUMBER</b> 720 929-6993
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst I
<b>DATE</b> 6/24/2014		<div style="text-align: right;"> <b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>FOR RECORD ONLY</b>          June 27, 2014       </div>

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 1022-4H-3				Spud Conductor: 3/20/2009				Spud Date: 3/22/2009			
Project: UTAH-UINTAH				Site: NBU 1022-4H-3				Rig Name No: GWS 1/1			
Event: ABANDONMENT				Start Date: 6/17/2014				End Date: 6/23/2014			
Active Datum: RKB @5,075.00usft (above Mean Sea Level)				UWI: 0/10/S/22/E/4/0/SENE/6/PM/N/2,426.00/E/0/1,163.00/0/0							
Date	Time Start-End		Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
6/17/2014	7:00	- 10:00	3.00	ABANDT	35		P		Travel to location. Rig up. Rih to latch sheermaster and spring. Stacked out @ 7973. pooh. Rig down. Ready for workover rig. Rig down. Thank you. Sheermaster and spring still in hole.		
6/20/2014	6:45	- 7:00	0.25	ABANDT	48		P		HSM. SLIP, TRIP'S & FALLS		
	7:00	- 8:30	1.50	ABANDT	30	A	P		RU RIG. SPOT EQUIP.		
	8:30	- 15:00	6.50	ABANDT	45	A	P		FWP 146 PSI. BLOW WELL DOWN T/ FBT. NDWH, NU BOP. RU RIG FLOOR & TBG EQUIP. UNLAND TBG. LD 41/16 TBG HNGR. MIRU SCAN TECH. POOH W/ 266 JTS 23/8 J-55 TBG. FOUND = 120 YB 58 BB 88 RB. LD POBS. SWIFWE.		
6/23/2014	7:00	- 7:15	0.25	ABANDT	48		P		JSA-SAFETY MEETING		
	7:15	- 9:00	1.75	ABANDT	34	I	P		600# ON WELL, BLOW DN TO TK, R/U CUTTER WIRELINE, RIH W/ GAUGE RING SET DN @ 7000', RIH W/ CBP SET @ 6860', R/D WIRELINE		
	9:00	- 11:00	2.00	ABANDT	31	I	P		P/U NOTCH COLLER RIH W/ 2 3/8" TBG TAG CBP 6860',		
	11:00	- 12:30	1.50	ABANDT	51	D	P		R/U BAKR HUGHES CEMENTER, PRESSURE TEST SURFACE LINE 1500#, PUMP 100 BBLS T-MAC WTR DN TBG OUT CSG, PRESSURE TEST CSG TO 500#, MIX 8 SACKS CLASS G CEMENT, PUMP 5 BBLS FRESH WTR THEN 1.6 BBL CEMENT 2 BBLS FRESH WTR, 24 BBLS T-MAC, SPOTED CEMENT 6750' TO 6860',		
	12:30	- 13:30	1.00	ABANDT	31	I	P		PULLED 4 JTS TBG LAY DN ON TRAILIER, REVERSE OUT W/ T-MAC, NO CEMENT, PULLED 73 JTS LAY DN ON TRAILER, EOT AT 4415',		
	13:30	- 14:30	1.00	ABANDT	51	D	P		ESTB CIRC W/ FRESH WTR, 7 BBLS TO FILL WELL, MIX 16 SACKS CLASS G CEMENT, PUMP 5 BBLS FRESH 3.5 BBLS CEMENT AND 2 BBLS FRESH FLUSH W/ 14 BBLS T-MAC, SPOTTED CEMENT 4150' TO 4415', PULLED 10 JTS OUT, REVERSE CIRC W/ NO CEMENT RETURN, R/D CEMENTER,		
	14:30	- 17:30	3.00	ABANDT	31	I	P		PULLED TBG LAY DN ON TRAILER, W/ TORAL OF 88 RED BAND AND 178 YELLOW BAND, TOTAL 266 JTS, N/D BOPS, N/U WH, R/D SERVICE UNIT MOVE OFF LOC, WELL IS TA , LATITUDE 39.978608 NORTH LONGITUDE 109.439633 WEST		

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>PHONE NUMBER:</b> 720 929-6100		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/2/2015	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The NBU 1022-4H-3 well was returned to production on 8/02/2015 following a temporary abandonment. Please see the attached operations summary report for details. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> August 04, 2015		
<b>NAME (PLEASE PRINT)</b> Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	<b>TITLE</b> Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/3/2015	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 1022-4H-3				Spud Conductor: 3/20/2009				Spud date: 3/22/2009			
Project: UTAH-UINTAH				Site: NBU 1022-4H PAD				Rig name no.: MILES 2/2			
Event: ABANDONMENT				Start date: 6/25/2015				End date: 7/30/2015			
Active datum: RKB @5,075.00usft (above Mean Sea Level)				UWI: 0/10/S/22/E/4/0/SENE/6/PM/N/2,426.00/E/0/1,163.00/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation			
6/25/2015	7:00 -							REBUILD PROD FACILITIES TO RETURN WELL TO PRODUCTION			
7/28/2015	7:00 - 7:30	0.50	ABANDT	48		P		HSM, RIGGING DOWN & UP.			
	7:30 - 10:30	3.00	ABANDT	30	A	P		RIGGED DWN OFF GREEN WELL, MOVED OVER & RIGGED UP, ND WH NU BOPS, RU FLORR & TBG EQUIP.			
	10:30 - 15:30	5.00	ABANDT	31	I	P		TALLY & PU 37/8 MILL, POBS, 130 JTS 23/8 J-55, TAG CMT @ 4171' SWI, DONE SAFETY DRILL ON LOCATION W/ LIFE FLIGHT.			
7/29/2015	7:00 - 7:30	0.50	ABANDT	48		P		HSM, WORKING W/ FOAM UNIT DRILLING CMT & CBP.			
	7:30 - 13:00	5.50	ABANDT	44	A	P		RU SWIVEL BROKE CIRC W/ AIR/FOAM, D/O CMT F/ 4171' - 4415' , FELL FREE, KILL TBG HANG SWIVEL PULL UP REM TSF, RIH TAG BACK UP ON CMT @ 6705', BROKE CIRC W/ AIR/FOAM D/O CMT TO 6860' CIRC CLN.			
	13:00 - 14:00	1.00	ABANDT	44	C	P		MILL OUT CBP @ 6860' IN 5 MIN 250 PSI INCREASE. KILL TBG PULL UP REM TSF, RIH TAG UP ON SCALE @ 6984'.			
	14:00 - 17:00	3.00	ABANDT	44	D	P		BROKE CIRC W/ AIR/FOAM C/O SCALE F/ 6984' TO 7062' FELL FREE TO 7282' CIRC CLN, KILL TBG HANG SWIVEL PULL UP REM TSF, RIH TAG BACK UP @ 7800', INSTALLED TSF, BROKE CIRC W/ AIR/FOAM, C/O TO 7941', CIRC CLN SWI SDFN.			
7/30/2015	7:00 - 7:30	0.50	ABANDT	48		P		HSM, WORKING W/ FOAM UNIT.			
	7:30 - 11:00	3.50	ABANDT	44	D	P		SICP 1450, OPEN TO PIT BROKE CIRC W/ AIR/FOAM C/O SCALE F/ 7941' TO 7972' FELL FREE, KILL TBG PULL UP REM TSF, RIH TAG @ 8393' RU SWIVEL BROKE CIRC W/ AIR, C/O SCALE F/ 8393' TO 8807' CIRC CLN, KILL TBG, RD SWIVEL.			
	11:00 - 17:00	6.00	ABANDT	31	I	P		L/D 15 JTS, LAND TBG, ND BOPS NU WH, PUMPED OFF BIT SWI RDMOL.MIRU ON NBU 920-12K SDFN.			
KB = 18' HANGER = .83' 261 JTS 23/8 J-55 = 8337.54' POBS W/ 1.875 X/N = 2.20' EOT @ 8358.57'											
TWLTR 60 BBLS											